


The George Washington University
Catalogue, 1906

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UNIVERSITY OF ILLINOIS



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THE
GEORGE WASHINGTON UNIVERSITY
BULLETIN

MARCH, 1906

CATALOGUE NUMBER

PUBLISHED BY THE UNIVERSITY AT WASHINGTON, D. C., IN MARCH,
JUNE, OCTOBER, AND DECEMBER



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PART I.
THE UNIVERSITY.

1906.

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The George Washington University.

UNIVERSITY CALENDAR.

1906.

- January 1, *Monday*.—Last day on which Theses may be presented for Graduation at the Winter Convocation.
- January 20, *Saturday*.—Annual Meeting of the Alumni Association.
- January 31, *Wednesday*.—Mid-Year Examinations completed in the Department of Arts and Sciences.
- February 1, *Thursday*.—Second Term begins.
- February 5, *Monday*.—Doctorate Disputation.
- February 22, *Thursday*.—Winter Convocation.
- April 13-16, *Friday to Monday*, both inclusive.—Easter holidays.
- April 18, *Wednesday*.—Davis Prize Speaking.
- May 1, *Tuesday*.—Last day on which Theses may be presented.
- May 16, *Wednesday*.—Examinations for Degrees completed.
- May 28, *Monday*.—Doctorate Disputation.
- June 3, *Sunday*.—Baccalaureate Sermon.
- May 28, 29, 31, June 1, *Monday, Tuesday, Thursday and Friday*.—Examinations for admission.
- June 6, *Wednesday*.—University Commencement.

SUMMER VACATION.

- September 19, *Wednesday*.—Fall examinations in the Department of Medicine.
- September 17-21, *Monday to Friday*.—Examinations for admission.
- September 26, *Wednesday*.—Academic Year begins in all Departments of the University.
- November 29-December 1, *Thursday to Saturday*, both inclusive.—Thanksgiving recess.
- RECESS FROM DECEMBER 23, 1906, TO JANUARY 2, 1907, BOTH INCLUSIVE.

1907

- January 19, *Saturday*.—Annual Meeting of the Alumni Association.
- January 31, *Thursday*.—Mid-Year Examinations completed in the Department of Arts and Sciences.
- February 1, *Friday*.—Second Term begins.

1907.

February 22, *Friday*.—Winter Convocation.

March 29-April 1, *Friday to Monday*, both inclusive.—Easter holidays.

April 3, *Wednesday*.—Davis Prize Speaking.

May 1, *Wednesday*.—Last day on which Theses may be presented.

May 15, *Wednesday*.—Examinations for Degrees completed.

May 27, *Monday*.—Doctorate Disputation.

June 2, *Sunday*.—Baccalaureate Sermon.

May 27, 28, 29, 31, *Monday to Wednesday*, and *Friday*.—Examinations for admission.

June 5, *Wednesday*.—University Commencement.

CHRONOLOGICAL TABLE.

1799. George Washington's last will and testament, urging the establishment of a University in Washington.
1821. Charter granted by Act of Congress creating "The Columbian College in the District of Columbia."
1825. The Medical School organized.
1865. The Law School organized.
1866. Mr. W. W. Corcoran gave the Medical School a building, 1325 H street.
1872. Mr. Corcoran gave an endowment "to make the College an University."
1873. Act of Congress changing the name to the Columbian University.
1884. University building, Fifteenth and H streets, occupied by various departments of the University.
1884. The Corcoran Scientific School organized.
1887. The Dental School organized.
1893. The School of Graduate Studies organized.
1898. The Department of Jurisprudence and Diplomacy organized.
1898. Incorporation of the George Washington Memorial Association.
1902. Merging of the College, the Corcoran Scientific School, and the School of Graduate Studies into one Department of Arts and Sciences.
1902. Purchase of Van Ness Park as new site for the University.
1903. Conferences between representatives of the Washington Memorial Institution, the George Washington Memorial Association, and the Columbian University with a view to coöperation in graduate work.
1904. January 23. Act of Congress making the University non-sectarian and giving the Board of Trustees power to change the name.
1904. Suggestion of the George Washington Memorial Association that Columbian University change its name to The George Washington University, and its offer to erect a memorial building on the new site, at a cost of \$500,000, for graduate study and scientific research, accepted by the Board of Trustees.
1904. September 1. Change of name to The George Washington University.
1905. February 22. First Winter Convocation of The George Washington University.
1905. Act of Congress authorizing the incorporation of colleges under the University charter.
1905. Organization under the University charter of the Columbian College, the Washington College of Engineering, and the National College of Pharmacy.

SOME IMPORTANT PROVISIONS IN THE CHARTER.

Degrees.—The Board of Trustees may confer “such degrees in the liberal arts and sciences to such pupils of the institution or others whom by their proficiency in learning or their meritorious distinction they shall think entitled to them, as are usually granted and conferred * * * and to grant to such graduates diplomas or certificates under the common seal * * * to authenticate and perpetuate the memory of such graduation.”

(Act of Congress, 1821.)

A Board of Trustees, “consisting of twenty-two members. The President of the University shall be *ex-officio* a member of said Board, and the remaining twenty-one shall be divided in three classes with seven members in each class,” the term of service being three years.

(Act of Congress, 1898.)

“The George Washington University shall have, and is hereby, given power to increase the number of its Trustees from time to time by two-thirds vote of the whole number of the Trustees at the time such vote is taken, to a number not exceeding forty-five.”

(Act of Congress, 1905.)

Property and Endowment.—“Shall be competent and capable at law and in equity to take * * * any estate, in any messuage, lands, tenements, hereditaments, goods, chattels, moneys, and other effects, by gift, grant, bargain, sale, conveyance, assurance, will, devise, or bequest, of any person or persons whatsoever, * * * and the same to grant, bargain, sell, convey, assure, demise, and to farm let, and place out on interest for the use of said College, in such manner as to them shall seem most beneficial to the institution, and to receive the rents, issues, and profits, income and interest of the same, and to apply the same to the proper use and benefit of the said College.”

(Act of Congress, 1821.)

“That power is hereby given the Board of Trustees * * * to change the name of said University, * * * and thereupon the University shall be known and designated by the name adopted, and by said new name the said University shall be vested with and convey its real estate, hold, control, and administer endowments and gifts of money and property heretofore and hereafter made for the maintenance of its educational work and do and perform all acts which it now has the power to do under its said charter. Such change of name shall not in any other way change, affect, or modify in any degree the rights, privileges, obligations, and powers of the said University under the charter of February ninth, eighteen hundred and twenty-one, and the amendatory acts thereto.”

(Act of Congress, 1904.)

Non-sectarian.—"That persons of every religious denomination shall be capable of being elected Trustees; nor shall any person, either as president, professor, tutor, or pupil, be refused admittance into said University, or denied any of the privileges, immunities, or advantages thereof, for or on account of his sentiments in matters of religion."

(Act of Congress, 1904.)

Power to Organize Colleges.—"That by and with the consent of the said University, colleges may be organized hereunder for the purpose of carrying on, in connection with the University, special lines of educational work in the arts, sciences, and liberal and technical knowledge, such colleges to be educationally a part of the system of the University, but upon independent financial foundations, and to this end any five or more persons desirous of associating themselves for the purpose of establishing a college hereunder may make, sign, and acknowledge before any officer authorized to take acknowledgment of deeds in the District of Columbia, and with the assent of the University in writing, file in the office of the Recorder of Deeds of the said District a certificate in writing, in which shall be stated: * * * Upon filing such certificate the Trustees named therein and their successors shall be a body politic, incorporated by the name and style stated in the certificate, and by that name and style shall have perpetual succession in association with the University, with power in the college to sue and be sued; plead and be impleaded; to acquire, hold, and convey property in all legal ways; to receive by gift, devise, or otherwise, and hold, control, and administer endowments and gifts of money and property thereafter made to it for the maintenance of its educational work; * * * but said college shall not confer academic or honorary degrees; such college shall hold the property of the institution and all moneys and property conveyed to it by purchase, gift, conveyance, will, devise, or bequest solely for the purpose of the educational work specified in said certificate."

(Act of Congress, 1905.)

Affiliated Colleges.—"That said University may enter into affiliated agreements with any institutions of learning outside of the District of Columbia, for the purpose of giving to students of such institutions the educational facilities of said University, and the departments of the Government in the city of Washington which are by law open to students, upon such terms as are mutually agreed upon by the said University and the affiliated institutions."

(Act of Congress, 1905.)

Boards of Visitors.—"Said Board may also appoint a board or boards of visitors for any department or departments of educational work carried on by the University, such boards of visitors to be advisory only."

(Act of Congress, 1905.)

BOARD OF TRUSTEES.

CHARLES WILLIS NEEDHAM, LL.D.,
President of the University and *ex-officio* Member of the Board.

1906.

MYRON M. PARKER, LL.B.	WILLIAM S. SHALLENBERGER, A.M.
THEODORE W. NOYES, LL.M.	DAVID ABBOT CHAMBERS, A.M.
ANDREW J. MONTAGUE, LL.D.	CHARLES D. WALCOTT, LL.D.
CHARLES WILLIAMSON RICHARDSON, M.D.	

1907.

SAMUEL H. GREENE, D.D., LL.D.	WILLIAM F. MATTINGLY, LL.D.
SAMUEL W. WOODWARD.	EUGENE LEVERING.
EDWARD M. GALLAUDET, LL.D.	HENRY C. YARROW, M.D.
JOHN JOY EDSON, LL.B.	

1908.

HENRY KIRKE PORTER, LL.D.	WAYNE MACVEAGH, LL.D.
JOHN B. LARNER, LL.D.	FRANCIS G. NEWLANDS, LL.D.
JACOB H. GALLINGER, A.M.	HENRY B. F. MACFARLAND.
ALEXANDER GRAHAM BELL, LL.D.	

OFFICERS OF THE BOARD.

WAYNE MACVEAGH, LL.D.,	JOHN B. LARNER, LL.D.,
Chairman.	Secretary.
EDWARD M. GALLAUDET, LL.D.,	JOHN JOY EDSON, LL.B.,
Vice-Chairman.	Treasurer.
WILLIAM AUGUSTIN DE CAINDRY,	CHARLES WENDELL HOLMES,
Auditor.	Assistant Treasurer.

The term of trustees expires, in each case, on Commencement Day of the year indicated.

STANDING COMMITTEES OF THE BOARD OF TRUSTEES.

1906-1907.

Executive: WOODWARD, GREENE, MATTINGLY, LARNER, GALLAUDET, EDSON, WALCOTT, NEEDHAM.

Nominations: GREENE, WOODWARD, PORTER, GALLINGER, BELL.

Department of Arts and Sciences: NOYES, GALLAUDET, MACFARLAND.

Faculty of Medicine and Hospital: RICHARDSON, LARNER, EDSON, YARROW.

Faculty of Dentistry: SHALLENBERGER, RICHARDSON, GALLINGER.

Department of Law and Jurisprudence: MATTINGLY, LARNER, MONTAGUE.

Department of Politics and Diplomacy: MACVEAGH, MATTINGLY, NEWLANDS, MACFARLAND.

Auditing Committee: CHAMBERS, PARKER, SHALLENBERGER.

Endowment: GALLAUDET, LEVERING, WOODWARD, GREENE, MACVEAGH, PARKER, NOYES, BELL, NEWLANDS, CHAMBERS, PORTER, GALLINGER, MACFARLAND.

COLLEGES OF THE UNIVERSITY.

Columbian College.

President of the University, *ex-officio* Member of the Board.

1906.

THOMAS R. JONES, DAVID A. CHAMBERS, THEODORE W. NOYES.

1907.

EUGENE LEVERING, EDWARD M. GALLAUDET, JOHN B. LARNER.

1908.

SAMUEL H. GREENE, SAMUEL W. WOODWARD,
WILLIAM H. SHALLENBERGER.

OFFICERS OF THE BOARD.

SAMUEL H. GREENE, Chairman. JOHN B. LARNER, Secretary.
EDWARD M. GALLAUDET, Vice-Chairman. JOHN JOY EDSON, Treasurer.

Washington College of Engineering.

President of the University, *ex-officio* Member of the Board.

1906.

JOHN B. LARNER, FREDERICK H. NEWELL, SAMUEL W. STRATTON.

1907.

THOMAS M. CHATARD, OTTO H. TITTMANN. T. CUMMERFORD MARTIN

1908.

BERNARD R. GREEN, CHARLES W. RAE, JOHN M. WILSON.

OFFICERS OF THE BOARD.

BERNARD R. GREEN, Chairman. JOHN B. LARNER, Secretary.
JOHN JOY EDSON, Treasurer.

National College of Pharmacy.

President of the University, *ex-officio* Member of the Board.

G. G. C. SIMMS, Phar. D.	FRANK C. HENRY, Phar. D.
SAMUEL I. HILTON, Phar. D.	H. E. KALUSOWSKI, M. D., Phar. D.
FRANK P. WELLER, Phar. D.	WALTER G. DUCKETT, Phar. D.
SAMUEL WAGGAMAN, M. D., Phar. D.	W. H. BRADBURY, Phar. D.
CHARLES B. CAMPBELL, M. D., Phar. D.	LEWIS FLEMER, Phar. D.
HERBERT C. EASTERDAY, Phar. D.	WILLARD S. RICHARDSON.

ADMINISTRATION AND INSTRUCTION.

Officers.

CHARLES WILLIS NEEDHAM, LL.D.....President of the University
OTIS D. SWETT, B.S., LL.M.....Registrar of the University

President's Council.

CHARLES WILLIS NEEDHAM, LL.D.....President of the University
JAMES HOWARD GORE, Ph.D.....Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D.....Professor of Physics
and Dean of Washington College of Engineering
JAMES MACBRIDE STERRETT, A.M., D.D.....Professor of Philosophy
CHARLES E. MUNROE, Ph.D.....Professor of Chemistry and
Dean of the Faculty of Graduate Studies
HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German
CHARLES CLINTON SWISHER, Ph.D., LL.D.....Professor of History
WILLIAM ALLEN WILBUR, A.M.....Professor of English
and Dean of Columbian College
MITCHELL CARROLL, Ph.D.....Professor of Classical Philology
GEORGE NEELY HENNING, A.M.....Professor of Romance Languages
PERCY ASH, C.E.....Professor of Architecture, in Charge
of Division of Architecture
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....Professor of Economics
FRANK LEIGHTON DAY, Ph.D.....Professor of Semitic Languages
and Literatures, and Corresponding Secretary of the University.
W. F. R. PHILLIPS, M.D.....Dean of the Faculty of Medicine
J. HALL LEWIS, D.D.S.....Dean of the Faculty of Dentistry
WILLIAM R. VANCE, Ph.D., LL.B.....Dean of the Faculty of Law and
Jurisprudence
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....Professor of Law
HENRY E. KALUSOWSKI, M.D., Phar. D...Dean of the National College
of Pharmacy

University Council.

Professors and Assistant Professors in all Departments and Colleges of the University constitute the University Council. Their names appear in the list of Members of Faculties and Teaching Staff.

(Arranged, with the exception of the President, in groups, in the order of appointment.)

Professors.

J. FORD THOMPSON, M.D.....Professor of Surgery
ALBERT F. A. KING, A.M., M.D., LL.D.....Professor of Obstetrics
and Dean Emeritus of the Faculty of Medicine
THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D....Professor of Zoölogy
JAMES HOWARD GORE, Ph.D.....Professor of Mathematics
WILLIAM A. MAURY, LL.D.....Professor of Law
GEORGE N. ACKER, A.M., M.D.....Professor of Pædiatrics and
of Clinical Medicine
HOWARD LINCOLN HODGKINS, Ph.D...Dean of Washington College of
Engineering and Professor of Physics
CLEVELAND ABBE, A.M., LL.D.....Professor of Meteorology
HENRY C. YARROW, M.D.....Professor of Dermatology
JAMES HALL LEWIS, D.D.S.....Dean of the Faculty of Dentistry
and Professor of Dental Prosthetics
D. KERFOOT SHUTE, A.B., M.D.Professor of Anatomy and
of Clinical Ophthalmology
HENRY CLAY THOMPSON, D.D.S.....Professor of Operative Dentistry
WILLIAM P. CARR, M.D.....Professor of Physiology
and of Clinical Surgery
JOHN MARSHALL HARLAN, LL.D.....Professor of Law
DAVID J. BREWER, LL.D.....Professor of Law
WILLIAM F. R. PHILLIPS, M.D.....Dean of the Faculty of Medicine
Professor of Hygiene and Assistant Professor of Practical Anatomy
HERMANN SCHOENFELD, Ph.D., LL.D.....Professor of German
STERLING RUFFIN, M.D.....Professor of the Theory and Practice
of Medicine and of Clinical Medicine
JONATHAN R. HAGAN, D.D.S.....Professor of Oral Surgery
WILLIAM K. BUTLER, A.M., M.D.....Professor of Ophthalmology
WILLIAM G. JOHNSON, LL.M.....Professor of Law
THOMAS E. MCARDLE, A.M., M.D.....Professor of Minor Surgery
JOHN VAN RENSSELAER, A.B., M.D.....Professor of Clinical Surgery
JAMES MACBRIDE STERRETT, A.M., D.D.....Professor of Philosophy
CHARLES EDWARD MUNROE, Ph.D.....Dean of the Faculty of
Graduate Studies and Professor of Chemistry
GEORGE P. MERRILL, Ph.D.....Professor of Geology and Mineralogy
CHARLES W. RICHARDSON, M.D..Professor of Laryngology and Otolaryngology

EDGAR FRISBY, A.M.....	Professor of Astronomy
FRANK WIGGLESWORTH CLARKE, Sc.D.....	Professor of Mineral Chemistry
HARVEY WASHINGTON WILEY, Ph.D., M.D....	Professor of Agricultural Chemistry
FRANK HAGAR BIGELOW, A.M., L.H.D.....	Professor of Astro-Physics
G. WYTHE COOK, M.D.....	Professor of Clinical Medicine
HERBERT LOUIS RICE, M.S.....	Professor of Astronomy
MELVILLE CHURCH, LL.M.....	Professor of the Law of Patents
WILLIAM ALLEN WILBUR, A.M.....	Dean of Columbian College and Professor of English
FRANK A. WOLFF, Ph.D.....	Professor of Electrical Engineering
J. WESLEY BOVÉE, M.D.....	Professor of Gynecology
THOMAS A. CLAYTOR, M.D.....	Professor of Materia Medica and Therapeutics and of Clinical Medicine
A. R. SHANDS, M.D.....	Professor of Orthopedic Surgery
JAMES CARROLL, M.D.....	Professor of Bacteriology and Pathology
CHARLES CLINTON SWISHER, Ph.D., LL.D.....	Professor of History
RANDOLPH B. CARMICHAEL, M.D....	Professor of Clinical Dermatology
FRANCIS R. HAGNER, M.D.....	Clinical Professor of Genito-Urinary Surgery and Venereal Diseases
JOHN B. NICHOLS, M.D.....	Professor of Histology
HENRY A. PRESSEY, Ph.D.....	Professor of Civil Engineering
WALTER C. CLEPHANE, LL.M.....	Professor of Law
JOHN W. FOSTER, LL.D.....	Professor of American Diplomacy
DAVID J. HILL, LL.D.....	Professor of European Diplomacy
MARTIN A. KNAPP, LL.D.....	Professor of Interstate Commerce Law
MITCHELL CARROLL, Ph.D.....	Professor of Classical Philology and Director of University Publications
PAUL BARTSCH, M.S.....	Professor of Zoölogy
EDWIN C. BRANDENBURG, LL.M.....	Professor of Law
ARTHUR PETER, LL.M.....	Professor of Law
W. C. WOODWARD, M.D., LL.M....	Professor of Medical Jurisprudence
ALBERT L. STAVELEY, M.D.....	Clinical Professor of Gynecology
HENRY P. BLAIR, LL.M.....	Professor of Law
STANTON J. PEELE, LL.D.....	Professor of Law
GEORGE N. HENNING, A.M.....	Professor of Romance Languages
PERCY ASH, C.E.....	Professor of Architecture, in Charge of Division of Architecture
JOHN PAUL EARNEST, A.M.....	Professor of Law
HANNIS TAYLOR, LL.D.....	Professor of Law
OSCAR P. AUSTIN	Professor of Commerce
WILLIAM REYNOLDS VANCE, Ph.D., LL.B.....	Dean of the Faculty of Law and Jurisprudence and Professor of Law
FRANK VAN VLECK, M.E., Ph.D..	Professor of Mechanical Engineering

J. H. P. BENSON, D.D.S.....	Professor of Operative Technics
J. ROLAND WALTON, D.D.S.....	Professor of Prosthetic Technics
WILLIAM A. WHITE, M.D.....	Professor of Mental Diseases
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....	Professor of Law, in Charge of Department of Politics and Diplomacy
GEORGE WINFIELD SCOTT, Ph.D., LL.B.....	Professor of Law
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....	Professor of Economics
GEORGE LANSING RAYMOND, L.H.D.....	Professor of Æsthetics
ALBERT BURNLEY BIBB.....	Professor of Architecture
WILLISTON S. HOUGH, Ph.B., Ph.M.....	Professor of Philosophy
HENRY L. ABBOT, LL.D., Brig. Gen., U. S. A.	Professor of Hydraulic Engineering
HENRY PARKER WILLIS, Ph.D.....	Professor of Finance
GEORGE M. STERNBERG, Surgeon General, U. S. A.	Professor of Preventive Medicine
JAMES BROWN SCOTT, M.A., J.U.D.....	Professor of Law
ALFRED NERINCX, LL.D.....	Professor of Law
EDWARD BENNETT ROSA, Ph.D.....	Professor of Physics
FRANK LEIGHTON DAY, Ph.D....	Professor of Semitic Languages and Literatures, and Corresponding Secretary of the University
CHARLES H. CLARK, M.D.....	Clinical Professor of Nervous Diseases
ARTHUR A. SNYDER, M.D.....	Clinical Professor of Surgery
I. W. BLACKBURN, M.D.....	Professor of Morbid Anatomy
ALBERT MANN, A. M., Ph.D.....	Professor of Botany
SAMUEL WAGGAMAN, M.D., Phar.D.....	Professor of Materia Medica, Botany and Toxicology
WILLIAM F. HILLEBRAND, Ph.D., Phar.D...	Professor of Chemistry and Physics
FREDERICK A. HOLTON, B.S., Phar.D..	Professor of Analytical Chemistry
HENRY E. KALUSOWSKI, M.D., Phar.D....	Dean of National College of Pharmacy and Professor of Pharmacy
BURTON J. HOWARD, B.S.....	Professor of Microscopy

Assistant Professors.

EDWARD ADAMS MUIR, B.S.....	Assistant Professor of Graphics
EDWARD E. MORSE, M.D.....	Assistant Professor of Obstetrics
EDWARD G. SEIBERT, M.D.....	Assistant Professor of Chemistry
WILLIAM H. TRAIL, D.D.S.....	Assistant Professor of Dental Materia Medica
CHARLES RAY DEAN, M.Dip.....	Assistant Professor of European Diplomacy
NEVIL MONROE HOPKINS, Ph.D.....	Assistant Professor of Chemistry
JOHN W. HOLCOMBE, A.M., M.Dip.....	Assistant Professor of Comparative Politics

CHARLES SIDNEY SMITH, A.M.	Assistant Professor of Greek and Latin
JULIAN M. CABELL, M.D.	Assistant Professor of Obstetrics
PHILANDER BETTS, E.E.	Assistant Professor of Electrical Engineering
EDWIN A. HILL, Ph.D.	Assistant Professor of Chemistry
D. W. PRENTISS, M.D.	Assistant Professor of Histology
C. S. WHITE, M.D.	Assistant Professor of Physiology
CARL HAU, A.M., LL.B.	Assistant Professor of Law
J. F. MITCHELL, M.D.	Assistant Professor of Surgical Pathology
THOMAS MALCOLM PRICE, Ph.D.	Assistant Professor of Chemistry
L. H. TAYLOR, M.D.	Assistant Professor of Physiology and Instructor in Clinical Medicine
JOHN R. WELLINGTON, M.D.	Assistant Professor of Clinical Surgery
JOHN H. LINDSEY, M.D.	Assistant Professor of Pathology, Curator of the Pathological Museum
TIMOTHY W. STANTON, Ph.D.	Assistant Professor of Paleontology
RAY SMITH BASSLER, M.S.	Assistant Professor of Paleontology and Stratigraphical Geology
SHERMAN M. WOODWARD, M.S., M.A.	Acting Assistant Professor of Mechanical Engineering

Instructors, Demonstrators and Assistants.

SAMUEL H. GREENE, JR., M.D.	Instructor in Anatomy
HOMER S. MEDFORD, M.D.	Instructor in Obstetrics
L. H. REICHELDERFER, M.D.	Instructor in Medicine
EDGAR P. COPELAND, M.D.	Instructor in Surgery
J. L. RIGGLES, M.D.	Instructor in Anatomy
T. S. D. GRASTY, M.D.	Instructor in Bacteriology and Pathology
H. C. MACATEE, M.D.	Instructor in Medicine and Clinical Instructor
G. BROWN MILLER, M.D.	Instructor in Gynecology
GEORGE M. RUFFIN, M.D.	Instructor in Anatomy
LEVI RUSSELL ALDEN, A.M.	Instructor in History
JOHN WILMER LATIMER, LL.B.	Clerk of the Moot Court
F. L. MOLBY	Instructor in Freehand Drawing
OSCAR QUICK, A.M.	Instructor in Physics
PAUL NOBLE PECK, A. M.	Instructor in Mathematics
H. H. DONNALLY, M.D.	Instructor in Bacteriology and Pathology and Assistant in Clinical Laboratory
O. A. M. MCKIMMIE, M.D.	Clinical Instructor in Laryngology and Ophthalmology
H. S. DYE, M.D.	Clinical Instructor in Laryngology and Ophthalmology
EUGENE LE MERLE, M.D.	Clinical Instructor in Nervous Diseases and Assistant Demonstrator of Bacteriology and Pathology
OTIS D. SWETT, B.S., LL.M.	Instructor in Chemistry
ISAAC ALLISON, B.S., E.E.	Instructor in Graphics
DE WITT C. CROISSANT, A.B.	Instructor in English

OSCAR L. KEITH, A.M.....	Instructor in Romance Languages
HENRY R. ELLIOTT, M.D.....	Instructor in Physiology
WALTER H. MERRILL, M.D.....	Instructor in Electro-Therapeutics
WALTER F. DODD, Ph.D.....	Instructor in Political Science
ALFRED F. W. SCHMIDT, A.M.....	Instructor in German
EDWARD M. DAWSON, JR., B.S.....	Instructor in Modern History
ASHTON WAUGH McWHORTER, Ph.D....	Instructor in Greek and Latin
EDWIN V. DUNSTAN, B.S.....	Instructor in Civil Engineering
ADOLPH A. HOEHLING, JR.....	Associate Justice of the Moot Court of Appeals
ASAPH HALL, Ph.D.....	Instructor in Mathematics
A. B. ILSLEY, B.S.....	Instructor in Civil Engineering
B. M. RANDOLPH, M.D.....	Instructor in Pharmacology
CHARLES MASON REMEY	Instructor in Architecture
CHARLES M. BEALL	Instructor in Physical Diagnosis
HARRY C. COBURN, M.D.....	Instructor in Physical Diagnosis
CHARLES T. BASSETT, D.D.S.....	Demonstrator in Charge of the Dental Infirmary
HURON W. LAWSON, M.D.....	Demonstrator in Bacteriology and Pathology
CADMUS LINDEN ODOR, D.D.S.....	Demonstrator of Operative Technics
FREDERICK I. BARTLETT	Technic Demonstrator
ALLEN S. WOLFE	Technic Demonstrator
CHARLES L. BOVÉE, D.D.S.....	Demonstrator in the Dental Infirmary
JOSEPH WOOD POLLOCK, D.D.S.....	Assistant Demonstrator in the Dental Infirmary
ARTHUR MILLARD TRIVETT, D.D.S.....	Assistant Demonstrator in the Dental Infirmary
THOMAS R. WILKERSON, D.D.S.....	Assistant Demonstrator in the Dental Infirmary
GEORGE B. HEINECKE, M.D.....	Assistant Demonstrator of Anatomy
VIRGIL B. JACKSON, M.D.....	Assistant Demonstrator of Anatomy
EDWARD ELLIOTT RICHARDSON, M.D., M. S..	Assistant Demonstrator of Anatomy
W. A. FRANKLAND, M.D.....	Assistant Demonstrator of Anatomy and Clinical Gynecology
R. M. LITTLE, M.D.....	Assistant Demonstrator of Anatomy
JOSEPH D. RODGERS, M.D.....	Assistant Demonstrator of Anatomy
EDWIN SMITH, JR.....	Assistant in Chemistry
RAYMOND OUTWATER, M.S.....	Assistant in Assaying
J. LAWN THOMPSON, M.D.....	Assistant in Minor Surgery
C. L. DAVIS, M.D.....	Assistant Instructor in Histology
HENRY M. JEWETT, M.D.....	Assistant Instructor in Histology
WILLIAM E. HILLYER, M.S.....	Assistant in Chemistry
OTTO L. VEERHOFF, B.A.....	Assistant in German

HENRY VERNON JOHNSTON	Pharmacist in the Hospital
ELMER SLAYTON NEWTON, M.D.....	Assistant in Chemistry
ARTHUR N. TASKER	Assistant in Chemistry
W. R. BRANDENBURG.....	Demonstrator of Bacteriology and Pathology
H. P. PARKER, M.D.....	Demonstrator of Bacteriology and Pathology
ERNEST W. BROWN.....	Assistant in Chemistry
J. A. HOLMES, M.D.....	Assistant Instructor in Histology
E. T. M. FRANKLIN	Assistant in Minor Surgery
W. J. FRENCH	Assistant in Minor Surgery
A. L. HUNT	Assistant in Minor Surgery
CHARLES W. HYDE	Assistant in Minor Surgery
TRUMAN ABBE, M.D.....	Assistant Instructor in Physiology
HUBERT P. ILLMAN	Assistant in Architecture

Lecturers.

OTIS T. MASON, LL.D.....	Lecturer on Anthropology
THOMAS M. CHATARD, Ph.D.....	Lecturer on Chemical Engineering
WILLIAM T. HARRIS, LL.D.....	Lecturer on the Philosophy of History
CARROLL D. WRIGHT, LL.D.....	Lecturer on Statistics and Social Economics
N. W. HOYLES, K.C.....	Lecturer on Canadian Law
ROBERT M. HUGHES, A.M., LL.B.....	Lecturer on Admiralty Law and Procedure
JOSEPH M. HELLER, M.D.....	Lecturer on Diseases of the Tropics
EDGAR BUCKINGHAM, Ph. D.....	Lecturer on Thermodynamics
FREDERICK E. FOWLE, JR., S.B.....	Lecturer on Astro-Physics
JAMES C. MONAGHAN, A.M.....	Lecturer on the Consular Service
WILLIAM HAMILTON, Ph.D.....	Lecturer on History
CHARLES H. DUELL, A.B., LL.B....	Lecturer on Substantive Patent Law
NOBLE P. BARNES, M.D.....	Lecturer on Materia Medica

Library Staff.

Arts and Sciences.

HARRIET FREEBEY, LL.M.....	Librarian
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Medicine.

C. B. CONKLIN.....	Librarian
A. S. BOARMAN.....	Assistant Librarian

Law and Jurisprudence, Politics and Diplomacy.

MILO B. GOODALL.....	Assistant Librarian
LEROY A. MCGEE.....	Assistant Librarian

ORGANIZATION.

The George Washington University comprehends the following Departments:

DEPARTMENT OF ARTS AND SCIENCES, including
Faculty of Graduate Studies.
Columbian College.
Washington College of Engineering.
Division of Architecture.

DEPARTMENT OF MEDICINE:
Faculty of Medicine.
Faculty of Dentistry.
National College of Pharmacy.

DEPARTMENT OF LAW AND JURISPRUDENCE.

DEPARTMENT OF POLITICS AND DIPLOMACY.

THE UNIVERSITY ASSEMBLY.

The University Assembly meets regularly on Wednesdays throughout the session at 12 o'clock. Members of the faculties and students of all departments are expected to be present. The exercises are regularly presided over by the President. Religious services are held, official announcements are made, and an address is given by the President.

THE UNIVERSITY LIBRARY.

The University Library comprehends (1) the Library of the Department of Arts and Sciences, (2) the Law Library, and (3) the Medical Library. It is in charge of the Library Committee, composed of professors in the various departments who administer the expenditure of the annual appropriation for the purchase of new books and look after the general interests of the Library. Details are given under the sections of the Catalogue devoted to the several departments. The Germanic Library of the late Professor Richard Heinzel, of the University of Vienna, recently acquired by the University, contains 7,200 volumes and pamphlets bearing on Germanic philology and literature, and a large number of works and periodicals in the cognate branches, especially Anglo-Saxon, Old English, the Romance and Slavic languages.

The Library of Congress is steadily perfecting its collections of standard works in the various branches of university study, and advanced and graduate students are there given every facility for pursuing their investigations.

ANNUAL COMMENCEMENT AND WINTER CONVOCATION.

The Annual Commencement is held on the first Wednesday in June. The Winter Convocation is held on the 22d of February. Degrees are publicly conferred on Commencement Day and at the Winter Convocation. Members of the faculties and candidates for degrees are expected to appear in academic caps and gowns. Prizes for special excellence in any department are publicly delivered on Commencement Day.

PRIVILEGES IN GOVERNMENTAL INSTITUTIONS OPEN TO UNIVERSITY STUDENTS.

In order to promote research and the diffusion of knowledge, the Congress of the United States has made the scientific resources of the Government accessible to students under the terms of the following joint resolution, approved April 12, 1892:

"Resolved by the Senate and House of Representatives of the United States of America in Congress assembled, That the facilities for research and illustration in the following and any other governmental collections now existing or hereafter to be established in the city of Washington for the promotion of knowledge shall be accessible, under such rules and restrictions as the officers in charge of each collection may prescribe, subject to such authority as is now or may hereafter be permitted by law, to the scientific investigators and to students of any institution of higher education now incorporated or hereafter to be incorporated under the laws of Congress or of the District of Columbia, to wit:

1. Of the Library of Congress.
2. Of the National Museum.
3. Of the Patent Office.
4. Of the Bureau of Education.
5. Of the Bureau of Ethnology.
6. Of the Army Medical Museum.
7. Of the Department of Agriculture.
8. Of the Fish Commission.
9. Of the Botanic Gardens.
10. Of the Coast and Geodetic Survey.
11. Of the Geological Survey.
12. Of the Naval Observatory."

Libraries.—In the archives of the State and other Departments and in the statistical bureaus of these Departments are extensive

accumulations of original historical documents and data which are invaluable to graduate students in history, political science, economics, sociology, and the allied topics of research. The Library of Congress, the Public Library of the District of Columbia, and the many highly specialized libraries attached to the various Departments of the Government are made easily accessible. Herbert Putnam, LL.D., Librarian of Congress, has said of them:

"There are thus in the city of Washington THIRTY-FOUR governmental libraries freely available for research. These libraries now contain in the aggregate over two million books and pamphlets and over a half million other articles literary in character—manuscripts, maps, music, and prints. If we add to them the contents of the District Library and of the libraries of private associations and institutions * * * we shall have a total not merely greater than is to be found in any other city of this size in the world, but one which in proportion to population represents several times as many volumes per capita as exist for public use in ANY other city of the world. * * * Today the Library of Congress is a collection, including duplicates, of over 1,100,000 books and pamphlets and nearly half a million other articles. It is housed in a building devoted to its sole use—the largest library building in the world, the most commodious, the most efficient in equipment for the work which it has to do; a building which provides for ample classification and display of the material, for reasonable growth, and for a multitude and great variety of service; a building which may accommodate a thousand readers at a time and differentiate them to their best advantage."

Museums.—In the collections of the National Museum, the Smithsonian Institution, the Army Medical Museum, the Museum of Naval Hygiene, and the departmental museums are found extensive series of specimens of great value to the student of anthropology, archæology, mineralogy, geology, paleontology, biology in all its branches, and other sciences. In the Patent Office are the records of the many inventions that have contributed so materially during our national existence to modify the conditions under which we live. The Army Medical Museum, which is open for inspection daily, presents a field for study superior to any other institution of the kind, either in this country or in Europe. Its library of medical books and periodicals is the best in the world. It has an unrivaled collection of anatomical and pathological specimens, illustrating normal anatomy and the results of disease in every form, and an almost unlimited number of other preparations showing the effect of gunshot wounds and surgical injuries of every kind. It also contains almost numberless crania of every human nationality.

In the National Museum is found the most complete and best arranged collection of *Materia Medica* in the world. The drugs are shown in all their processes of manufacture, from the original package to the delicate alkaloid constituting the active principle.

Laboratories.—In the experimental sciences the most notable facilities are available, since in Washington are centered the Weather Bureau, with its appliances for the study of national problems in meteorology; the Coast and Geodetic Survey, from which the surveys of our territory are carried on and by which the figure of the earth and terrestrial magnetism are experimentally determined; the Hydrographic Bureau, which conducts the surveys of foreign coasts and the study of the oceans; the Bureau of Standards, which standardizes the instruments used in measuring mass, volume, heat, light, electricity, and all other magnitudes; the Geological Survey, which investigates the structure of the earth, ascertains our mineral resources, and supervises the sources of supply and means for distribution and control of water for irrigation purposes; the Department of Agriculture, which exists primarily for conducting original investigations for the benefit of agriculture in all its branches, and is therefore provided with extensively equipped laboratories for the study of chemistry, botany, vegetable physiology, entomology, bio-chemistry, bacteriology, comparative pathology, parasitology, the physics and chemistry of the soil, forestry, and microscopy; the Naval Observatory and Nautical Almanac Office, where researches in astronomy and navigation are conducted; the Marine Hospital Service, which deals with national problems in hygiene; the Bureaus of Construction and of Steam Engineering of the Navy, having supervision over the designs and construction of our ships; the Bureau of Yards and Docks, having supervision over the engineering operations at our navy yards and naval stations; the Bureau of Equipment, which is charged with the electrical installations for the Navy; the United States Signal Corps, which has supervision over the electrical installations for the Army; the Engineer Corps of the Army, which is charged with river and harbor improvements, and the Light-House Board, which controls the system for lighting our navigable waters.

Of chemical laboratories for conducting the tests of materials, and especially for research work, there are now eighteen attached to the different departments at Washington. An extensive new laboratory is being equipped for the Marine Hospital and Public Health Service. This is the national health department of the Government. In this laboratory and in the laboratories of the Department of Agriculture there are superior facilities for all kinds

of bacteriological and chemical investigations, and for the study of bio-chemistry, comparative pathology, and parasitology. The new laboratories and hospitals of the Army and the Navy also offer many opportunities for instruction.

Washington offers exceptional opportunities for special or advanced work in Mechanical Engineering. The departments of the Government charged with designing are all located here. In the Bureaus of Steam Engineering and of Construction and Repair, and Ordnance, of the Navy, are projected a large amount and extensive variety of heavy constructional work. Here is also located the United States Navy or Ordnance Gun Factory. The Ordnance Proving Station is but a few miles down the Potomac. Tours of inspection may be made to the large steel works and shipbuilding plants in Baltimore, and to the shipbuilding plant at Newport News.

PART II.

DEPARTMENTS OF THE UNIVERSITY.

DEPARTMENT OF ARTS AND SCIENCES.

The Department of Arts and Sciences comprehends the following:

- I. FACULTY OF GRADUATE STUDIES.
- II. COLUMBIAN COLLEGE.
- III. WASHINGTON COLLEGE OF ENGINEERING.
- IV. DIVISION OF ARCHITECTURE.

This Department is open to young men and young women who satisfy its requirements. The session of 1906-1907 begins Wednesday, September 26, 1906. The main building of the University, in which most of the courses of study are conducted, is University Hall, corner Fifteenth and H streets, N.W. The offices of the President, Assistant Treasurer, and Registrar of the University are in this building.

I. FACULTY OF GRADUATE STUDIES.

COMMITTEE ON HIGHER DEGREES.

CHARLES E. MUNROE, *Chairman.*

J. MACBRIDE STERRETT.

HERMANN SCHOENFELD.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.,.....PRESIDENT OF THE UNIVERSITY
CHARLES E. MUNROE, Ph.D.,.....Dean, and Professor of Chemistry
JAMES HOWARD GORE, Ph.D.,.....Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D.,.....Professor of Physics
JAMES MACBRIDE STERRETT, D.D.,.....Professor of Philosophy
HERMANN SCHOENFELD, Ph.D.,.....Professor of German
CHARLES CLINTON SWISHER, Ph.D., LL.D.,.....Professor of History
WILLIAM ALLEN WILBUR, A.M.,.....Professor of English
MITCHELL CARROLL, Ph.D.,.....Professor of Classical Philology
GEORGE N. HENNING, A.M.,.....Professor of Romance Languages
THEODORE N. GILL, Ph.D.,.....Professor of Zoölogy
CLEVELAND ABBE, LL.D.,.....Professor of Meteorology
EDGAR FRISBY, A.M.,.....Professor of Astronomy
FRANK W. CLARKE, Sc.D.,.....Professor of Mineral Chemistry

HARVEY W. WILEY, Ph.D.....	Professor of Agricultural Chemistry
FRANK H. BIGELOW, L.H.D.....	Professor of Astro-Physics
GEORGE P. MERRILL, Ph.D.....	Professor of Geology and Mineralogy
FRANK A. WOLFF, Ph.D.....	Professor of Electrical Engineering
HERBERT L. RICE, M.S.....	Professor of Astronomy
HENRY A. PRESSEY, Ph.D.....	Professor of Civil Engineering
PAUL BARTSCH, M.S., Ph.D.....	Professor of Zoölogy
FRANK VAN VLECK, Ph.D.....	Professor of Mechanical Engineering
PERCY ASH, C.E.....	Professor of Architecture
C. W. A. VEDITZ, Ph.D.....	Professor of Economics
GEORGE LANSING RAYMOND, L.H.D.....	Professor of Æsthetics
HENRY L. ABBOTT, Brig. Gen. U. S. A., LL.D.....	Professor of Hydraulic Engineering
GEORGE M. STERNBERG, Surgeon Gen., U. S. A.....	Professor of Preventive Medicine
EDWARD B. ROSA, Ph.D.....	Professor of Physics
N. MONROE HOPKINS, Ph.D.....	Assistant Professor of Chemistry
ALBERT MANN, A.M., Ph.D.....	Professor of Botany
CHARLES SIDNEY SMITH, A.M.	Assistant Professor of Greek and Latin
EDWIN A. HILL, Ph.D.....	Assistant Professor of Stereo-Chemistry
THOMAS M. PRICE, Ph.D.....	Assistant Professor of Biochemistry
PHILANDER BETTS, M.S., E.E.....	Assistant Professor of Electrical Engineering
TIMOTHY W. STANTON, Ph.D.....	Assistant Professor of Paleontology
OTIS T. MASON, LL.D.....	Lecturer on Anthropology
WILLIAM T. HARRIS, LL.D.....	Lecturer on Philosophy
EDGAR BUCKINGHAM, Ph.D.....	Lecturer on Thermodynamics
FREDERICK E. FOWLE, JR., S.B.....	Lecturer on Astrophysics
OTIS D. SWETT, B.S.....	Secretary

The Division of Graduate Studies is charged with the development and supervision of research courses leading to the higher degrees. This work was organized at this University in 1893 with a view to enable properly equipped students to avail themselves of the advantages which Washington offers for original investigations. Announcements relative to the official matters of this Division are made at the University Assembly, and professors and students of this Division are expected to be governed by them.

HIGHER DEGREES.

The higher degrees conferred in course by the University in this division of the Department of Arts and Sciences are Master of Arts (A.M.), Master of Science (M.S.), Civil Engineer (C.E.), Electrical Engineer (E.E.), Mechanical Engineer (M.E.), and Doctor of Philosophy (Ph.D.).

ADMISSION.

Candidates for admission to courses for higher degrees must present the diplomas they hold, or certificates that they have received such diplomas, to the Registrar of the University, and obtain from him application blanks. When properly filled and signed, these applications are to be submitted to the Chairman of the Committee on Higher Degrees, together with catalogues of the institutions from which they hold their degrees and certificates of their course of study at such institutions. All such applications should be accompanied by testimonials as to character and scholarship.

DEGREES OF MASTER OF ARTS AND MASTER OF SCIENCE.

Before a student can be admitted to candidacy for the Master's degree he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued for this degree must be approved by the University Council as qualifying the candidate for pursuing the chosen line of study for the Master's degree.

A candidate for this degree shall pass at least one full year of residence and study at this University, and shall sustain satisfactory examinations on the studies pursued and present an acceptable thesis, together with a bibliography.

Three full courses throughout the year shall be the minimum required as constituting a full year's work. The courses chosen must be passed upon by the President's Council and have the approval of the professors under whom they are to be taken. These courses may consist of special study or research work. In any case they must form a consistent plan of work, for which the candidate's previous work has qualified him. No work done for a Bachelor's degree shall be counted again for a Master's degree. Theses in their final form must be presented to the Chairman not later than May 1 for graduation in June, or January 1 for graduation at the Winter Convocation.

HIGHER DEGREES IN ENGINEERING.

Before a student can be admitted to candidacy for higher degrees in Engineering he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree

in Engineering, and which was of such a character as to fit him to pursue to advantage the study of advanced engineering topics. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Moreover, the courses of study pursued for the Bachelor's degree must be approved by the University Council as qualifying the candidate for pursuing the chosen line of study for the degree.

A candidate for a degree in Engineering shall pass at least one full year of residence and study at this University, and shall sustain satisfactory examinations on the studies pursued and present an acceptable thesis, together with a bibliography.

Three full courses will be the minimum required as constituting a full year's work. At least one-half of this work must be in the course in which the degree is sought and the balance in correlated courses. The courses chosen must be passed upon by the President's Council and have the approval of the professors under whom they are to be taken. Theses in their final form must be presented to the Chairman not later than May 1 for graduation in June or January 1, for graduation at the Winter Convocation.

DEGREE OF DOCTOR OF PHILOSOPHY.

The degree of Doctor of Philosophy is conferred upon students who have pursued specialized courses in university subjects and engaged in original research in certain of the various departments of letters or science, under university auspices, for a period of not less than three years, and have submitted an acceptable thesis and met all the requirements prescribed. The degree is given, not because of the faithful completion of a course of study according to a stated program for a given length of time, but for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can be admitted to candidacy for the degree of Doctor of Philosophy he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree, and which was of such a character as to fit him to pursue to advantage researches in the field chosen for graduate work. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. The applicant may be credited with graduate work done at other universities, provided such work is shown to be of grade similar to that required here, but at least one year must be spent in residence at this University and the other requirements of the degree as prescribed must be fulfilled.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics from the university subjects—one major and two collateral minor studies—the combination to be approved by the President's Council. These must be pursued under the guidance of a committee, consisting of the professors in charge of the departments in which studies are pursued, with the professor in the major subject as Chairman. This committee will determine his division of time, study, and research among the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work, and each minor topic during at least one year. The candidate shall pass satisfactory written examinations upon the three subjects selected. The examinations in the minor topics may be taken at the completion of the courses pursued or at the discretion of the professor in charge. In written examinations the time limit is four hours for the major and three hours for the minor topics. The candidate must show that he possesses a reading knowledge of French and German, as evinced by familiarity with philological or scientific monographs pertaining to his special branches of study. The head professor of a subject may require such knowledge of other subjects as is considered fundamental. The candidate must present a satisfactory thesis, together with an exhaustive bibliography, exhibiting independent research in some branch of his major subject, under the following regulations:

REGULATIONS REGARDING THESES.

Theses must be presented not later than May 1 for graduation in June, or January 1 for graduation at the Winter Convocation.

After their acceptance, theses, with their accompanying drawings, are the property of the University, and must be deposited in the University archives, but authors are permitted to make copies. All theses must be typewritten on official thesis paper, which may be obtained from the Assistant Treasurer of the University. No thesis for the degree of Doctor of Philosophy shall be submitted to the University Council until it has been approved by the professor having supervision of the major topic, and also by a co-referee to be appointed by the President's Council. The referees shall present to the Council written reports on the thesis to be filed therewith. The candidate is expected to print his thesis, under the supervision of the professor in charge of his major topic, within one year after the degree is granted, and shall present one hundred copies to the University, to be distributed among institutions of learning. The candidate must defend his thesis before a board of experts consisting of three specialists of university standing and established reputation in the subject represented by the principal topic, to be appointed by the President's Council.

Typical Title Page for a Thesis in the Division of Graduate Studies.

A COMPARATIVE STUDY

OF THE

LOWER CRETACEOUS FORMATIONS AND FAUNAS

OF THE

UNITED STATES.

A Thesis Submitted to the Faculty of Graduate Studies of The George Washington University in Part Satisfaction of the Requirements for the Degree of Doctor of Philosophy.

BY

TIMOTHY WILLIAM STANTON, B.S., M.S.

Washington, D. C.

1897.

DOCTORATE DISPUTATION.

A Doctorate Disputation was held publicly in University Hall, May 22, 1905. The theses that were successfully defended, the candidates, and the members of the boards of experts were as follows:

Thesis: A study of the James Types of Ordovician and Silurian Bryozoa.

By Ray Smith Bassler, B.A., 1902, University of Cincinnati; M.S., 1903, The Columbian University.

Before David White, B.S., Geologist, U. S. Geological Survey; George H. Girty, Ph.D., Stratigraphic Paleontologist, U. S. Geological Survey; Edward O. Ulrich, Sc.D., Geologist, U. S. Geological Survey; Professor George P. Merrill, Ph.D., presiding.

Thesis: On the Constitution of Certain Natural Silicates.

By Hiram Colver McNeil, B.S., 1896; M.S., 1899, Denison University.

Before William A. Noyes, Ph.D., Chief Chemist, National Bureau of Standards; Henry N. Stokes, Ph. D., Chemist, National Bureau of Standards; Allerton S. Cushman, Ph.D., Chemist in Charge, Division of Tests, U. S. Department of Agriculture; Professor F. W. Clarke, Sc. D., presiding.

Thesis: Flow of Water in Channels.

By Henry Albert Pressey, B.S., 1893, The Columbian University; B.S., 1896, Massachusetts Institute of Technology.

Before Lieutenant Colonel Smith S. Leach, Engineer Corps, U. S. Army; Elwood Mead, C.E., Irrigation Expert, U. S. Department of

Agriculture; Homer P. Ritter, Member Mississippi River Commission; Brigadier General Henry L. Abbot, Engineer Corps, U. S. Army, presiding.

TOPICS FOR STUDY.

The topics and courses from which elections may be made are announced in the second and third sections of University Subjects, Department of Arts and Sciences, and in the similar sections of the curricula of the Departments of Medicine, Law and Jurisprudence, and Politics and Diplomacy. In filling out application blanks the number of the course must be given.

II. COLUMBIAN COLLEGE.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.,	PRESIDENT OF THE UNIVERSITY
WILLIAM ALLEN WILBUR, A.M.	Dean and Professor of English
JAMES HOWARD GORE, Ph.D.	Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D.	Professor of Physics
JAMES MACBRIDE STERRETT, A.M., D.D.	Professor of Philosophy
CHARLES E. MUNROE, Ph.D.	Professor of Chemistry
HERMANN SCHOENFELD, Ph.D., LL.D.	Professor of German
CHARLES CLINTON SWISHER, Ph.D., LL.D.	Professor of History
MITCHELL CARROLL, Ph.D.	Professor of Classical Philology
GEORGE N. HENNING, A.M.	Professor of Romance Languages
PERCY ASH, C.E.	Professor of Architecture
C. WILLIAM A. VEDITZ, Ph.D., LL.B.	Professor of Economics
WILLISTON S. HOUGH, Ph.M.	Professor of Philosophy
FRANK LEIGHTON DAY, Ph.D.	Professor of Semitic Languages and Literature
GEORGE P. MERRILL, Ph.D.	Professor of Geology and Mineralogy
PAUL BARTSCH, Ph.D.	Professor of Zoölogy
GEORGE LANSING RAYMOND, L.H.D.	Professor of Æsthetics
HENRY PARKER WILLIS, Ph.D.	Professor of Finance
ALBERT MANN, Ph.D.	Professor of Botany
EDWARD ADAMS MUIR, B.S.	Assistant Professor of Graphics
CHARLES SIDNEY SMITH, A.M.	Assistant Professor of Greek and Latin
N. MONROE HOPKINS, Ph.D.	Assistant Professor of Chemistry
EDWIN A. HILL, Ph.D.	Assistant Professor of Chemistry
THOMAS MALCOLM PRICE, Ph.D.	Assistant Professor of Chemistry
WILLIAM HAMILTON, Ph.D.	Lecturer on History
OSCAR QUICK, A.M.	Instructor in Physics
F. L. MOLBY.	Instructor in Freehand Drawing
LEVI RUSSELL ALDEN, A.M.	Instructor in History
ISAAC ALLISON, E.E.	Instructor in Graphics
R. S. BASSLER, Ph.D.	Instructor in Geology
OTIS D. SWETT, B.S.	Instructor in Chemistry and Secretary
PAUL NOBLE PECK, A.M.	Instructor in Mathematics
DE WITT C. CROISSANT, A.B.	Instructor in English
OSCAR L. KEITH, A.M.	Instructor in Romance Languages
ASHTON WAUGH McWHORTER, Ph.D.	Instructor in Greek and Latin
ALFRED F. W. SCHMIDT, A.M.	Instructor in German
EDWIN VIVIAN DUNSTAN, B.S.	Instructor in Civil Engineering
EDWARD M. DAWSON, JR., B.S.	Instructor in History
ASAPH HALL, Ph.D.	Instructor in Mathematics

RAYMOND OUTWATER, M.S.....	Assistant in Assaying
EDWIN SMITH, JR.....	Assistant in Chemistry
OTTO LOUIS VEERHOFF, A.B.....	Assistant in German

STANDING COMMITTEES OF THE FACULTY.

Committee on the Bachelor of Arts Course.

Professors GORE, SWISHER, CARROLL.

Committee on the Bachelor of Science Course.

Professors HODGKINS, HENNING, MERRILL.

Committee on the Schedule.

Professors HENNING, GORE, HODGKINS.

The session of 1906-1907 begins Wednesday, September 26, 1906.

Columbian College is open to young men and young women. The courses of study in this department are mainly conducted in University Hall, corner Fifteenth and H streets, N. W. The office of the Dean of the College is in this building.

ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring coöperation with the University, that present evidence of affording adequate preparation in the required subjects. The Registrar of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

The certificate of the Washington high schools covering all the requirements for admission admits students without examination to the courses of the Freshman year.

The certificates of all schools accredited to the University will be accepted in so far as they specifically meet the requirements for admission.

The general requirement for admission is a four-year high school course, or its equivalent, consisting usually of four or five recitations per week in four or more topics. The High School studies which may be presented in satisfaction of the requirements of admission are given in the adjoining table, the unit being four or five recitations per week for one school year. The figures show the relative value of each subject. The list is substantially that set forth in Document No. 25 of the College Entrance Examination Board.

LIST OF PREPARATORY SUBJECTS FOR EXAMINATION.

	Units.		Units.
English	4	History:	
Latin:		English	1
Elementary	2	American and Civil Gov-	
Advanced	2	ernment	1
Greek:		Mathematics:	
Elementary	2	Elementary Algebra.....	1
Advanced	1	Advanced Algebra.....	½
French:		Plane Geometry.....	1
Elementary	2	Solid Geometry.....	½
Advanced	2	Plane Trigonometry.....	½
Spanish	2	Physics	1
German:		Chemistry	1
Elementary	2	Botany	1
Advanced	2	Zoölogy.....	1
History:		Physiography	1
Ancient	1	Drawing	1
Mediæval and Modern....	1	Shopwork	2

TERMS OF ADMISSION TO BACHELOR OF ARTS COURSES.

Candidates for admission to the course leading to the degree of Bachelor of Arts are required to present subjects from the list of High School studies aggregating fifteen units, distributed as follows:

	Units.
English	4
Latin	4
{ Greek	3
or	
{ French or German.....	2
Elementary Algebra	1
Plane Geometry	1
Electives	2 or 3

TERMS OF ADMISSION TO BACHELOR OF SCIENCE COURSES.

Candidates for admission to the courses leading to the degree of Bachelor of Science are required to present subjects from the list of High School studies aggregating fifteen units, distributed as follows:

	Units.
English	4
French or German.....	2
Elementary Algebra	1
Plane Geometry	1
Physics	1
Chemistry	1
Electives	5
	<hr/> 15

EXAMINATIONS FOR ADMISSION.

The regular examination for admission to the Freshman Class is held in University Hall, southeast corner of Fifteenth and H streets, N. W., during the week preceding the Commencement. The following is the schedule for the examination:

May 28, 1906.

Registration of Applicants at the Dean's office.....	8.30- 9.00
Latin; Drawing	9.00-11.00
Plane Geometry	11.00- 1.00
Elementary Algebra	2.00- 4.00

May 29.

Greek; Physics	9.00-11.00
Ancient History	11.00- 1.00
German	2.00- 4.00
French	4.00- 6.00

May 31.

Plane Trigonometry; Botany	9.00-11.00
English History	11.00- 1.00
English	2.00- 4.00

June 1.

Advanced Algebra; Zoölogy.....	9.00-11.00
Solid Geometry; Spanish.....	11.00- 1.00
Chemistry; Physiography	2.00- 4.00

Subjects offered for admission, but not named in the schedule of examinations, will be arranged for as occasion arises.

Unless admitted by certificate, every undergraduate candidate for a degree is required to pass an examination.

DEFINITION OF REQUIREMENTS.

ENGLISH.

(Counting four units.)

The requirement in English is that recommended by the Conference on Uniform Entrance Requirements in English.

NOTE—No candidate will be accepted in English whose work is notably defective in point of spelling, punctuation, idiom, or division into paragraphs.

a. READING. The form of examination will usually be the writing of a paragraph or two on each of several topics to be chosen by the candidate from a considerable number—perhaps ten or fifteen—given in the examination paper. The treatment of these topics is designed to test the candidate's power of clear and accurate expression, and will call for only a general knowledge of the substance of the books. *In every case knowledge of the book will be regarded as less important than the ability to write good English.* In preparation for this part of the examination, it is important that the candidate shall have been instructed in the fundamental principles of rhetoric.

Candidates should read the books prescribed for the year in which they propose to present themselves for this part of the examination.

In 1906, 1907, and 1908 the books prescribed for this part of the examination are as follows:

Shakespeare's *The Merchant of Venice* and *Macbeth*; *The Sir Roger de Coverley Papers* in the Spectator; Irving's *Life of Goldsmith*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe* and *The Lady of the Lake*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

In 1909, 1910, and 1911 ten books, selected as prescribed below from the following list, are to be offered for examination:

Group I (two to be selected).

Shakespeare's *As You Like It*, *Henry V*, *Julius Cæsar*, *The Merchant of Venice*, *Twelfth Night*.

Group II (one to be selected).

Bacon's *Essays*; Bunyan's *The Pilgrim's Progress, Part I*; *The Sir Roger de Coverley Papers* in the Spectator; Franklin's *Autobiography*.

Group III (one to be selected).

Chaucer's *Prologue*; Spenser's *Faerie Queene* (selections); Pope's *The Rape of the Lock*; Goldsmith's *The Deserted Village*; Palgrave's *Golden Treasury* (*First Series*), *Books II and III*, with especial attention to Dryden, Collins, Gray, Cowper and Burns.

Group IV (two to be selected).

Goldsmith's *The Vicar of Wakefield*; Scott's *Ivanhoe*; Scott's *Quentin Durward*; Hawthorne's *The House of the Seven Gables*; Thackeray's *Henry Esmond*; Mrs. Gaskell's *Cranford*; Dickens' *A Tale of Two Cities*; George Eliot's *Silas Marner*; Blackmore's *Lorna Doone*.

Group V (two to be selected).

Irving's *Sketch Book*; Lamb's *Essays of Elia*; De Quincey's *Joan of Arc* and *The English Mail Coach*; Carlyle's *Heroes and Hero Worship*; Emerson's *Essays* (selected); Ruskin's *Sesame and Lilies*.

Group VI (two to be selected).

Coleridge's *The Ancient Mariner*; Scott's *The Lady of the Lake*; Byron's *Mazeppa* and *The Prisoner of Chillon*; Palgrave's *Golden Treasury* (*First Series*), *Book IV*, with especial attention to Wordsworth, Keats, and Shelley; Macaulay's *Lays of Ancient Rome*; Poe's *Poems*; Lowell's *The Vision of Sir Launfal*; Arnold's *Sohrab and Rustum*; Longfellow's *The Courtship of Miles Standish*; Tennyson's *Gareth and Lynette*, *Lancelot and Elaine*, and *The Passing of Arthur*; Browning's *Cavalier Tunes*, *The Lost Leader*, *How They Brought the Good News from Ghent to Aix*, *Evelyn Hope*, *Home Thoughts from Abroad*, *Home Thoughts from the Sea*, *Incident of the French Camp*, *The Boy and the Angel*, *One Word More*, *Harvé Riel*, *Pheidippides*.

b. STUDY AND PRACTICE. This part of the examination presupposes the thorough study of each of the works named below. The examination will be upon subject-matter, form, and structure. In addition, the candidate may be required to answer questions involving the essentials of English grammar, and questions on the leading facts in those periods of English literary history to which the prescribed works belong.

The books set for this part of the examination will be:

1906, 1907, 1908: Shakespeare's *Julius Cæsar*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*; Macaulay's *Essay on Addison* and *Life of Johnson*.

1909, 1910, 1911: Shakespeare's *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro*, and *Il Penseroso*; Burke's *Speech on Conciliation with America*, or Washington's *Farewell Address* and Webster's *First Bunker Hill Oration*; Macaulay's *Life of Johnson*, or Carlyle's *Essay on Burns*.

LATIN.

The minimum requirements in Latin and Greek are in substantial agreement with those set forth in Document No. 25 of the College Entrance Examination Board, which carry out the recommendations of the Committee of Twelve of the American Philological Association:

The Elementary Requirement (counting two units).

- a. i. Latin Grammar: The inflections; the simpler rules for composition and derivation of words; syntax of cases and the verbs; structure of sentences in general, with particular regard to relative and conditional sentences, indirect discourse, and the subjunctive; so much prosody as relates to accent, versification in general, and dactylic hexameter.
- ii. Latin Prose Composition: Translation into Latin of detached sentences and easy continuous prose based upon Cæsar.
- b. Cæsar: Any four books of the Gallic War, preferably the first four, or their equivalent.

The Advanced Requirement (counting two units).

- a. Cicero: Any six orations from the following list, but preferably the first six mentioned:
The four orations against Catiline, Archias, the Manilian Law, Marcellus, Roscius, Milo, Sestius, Ligarius, the Fourteenth Philippic.
- b. Vergil: The first six books of the Æneid.
- c. Advanced Prose Composition, consisting of continuous prose of moderate difficulty based on Cicero.
- d. Sight Translation, based on prose of no greater difficulty than the easier portions of Cicero's orations.

GREEK.

The Elementary Requirement (counting two units).

- a. i. Greek Grammar: The topics for the examination in Greek grammar are similar to those detailed under Latin grammar.
- ii. Greek Prose Composition, consisting principally of detached sentences to test the candidate's knowledge of grammatical constructions.
The examination in grammar and prose composition will be based on the first two books of Xenophon's Anabasis.
- b. Xenophon: The first four books of the Anabasis.

The Advanced Requirement (counting one unit).

- a. Homer: The first three books of the Iliad (omitting II, 494, to end).
- b. Sight Translation, based on prose of no greater difficulty than Xenophon's Anabasis.

FRENCH.

Elementary (counting two units). Candidates in Elementary French must have a good knowledge of the essential parts of grammar, with stress on pronouns and on regular verbs and the common irregular verbs. They must know the principles of pronunciation; must be able to translate simple English sentences or easy connected prose into French, and to translate accurately ordinary modern French prose. Candidates must have translated not less than 450 duodecimo pages by at least four different authors, of which amount at least one-third must be history. Candidates must have had a two-years' course of at least four periods per week.

Advanced (counting two units). Candidates in Advanced French must have partly translated, partly read, in addition to the requirements for Elementary French, at least 1,000 pages of difficult French of several different authors, including history, fiction, drama, and poetry. Candidates must have had a four-years' course of at least four periods per week.

Fraser and Squair's French Grammar or Grandgent's Essentials of French Grammar is recommended.

SPANISH.

(Counting two units.)

Candidates in Spanish must have a good knowledge of grammar, including syntax, with stress on pronouns and verbs, regular and irregular. They must know the principles of pronunciation. They must be able to translate simple English sentences or easy connected prose into Spanish, and to translate accurately fairly difficult modern Spanish prose and verse. Candidates must have translated not less than 500 pages by at least four different authors, of which amount at least one-fourth must be history or drama. Candidates must have had a two-years' course of at least four periods per week.

GERMAN.

Elementary (counting two units). Candidates in Elementary German must have had a two-years' course of at least four periods a week. They must be able to read fluently at sight and to translate easy

narrative prose and poetry. An accurate knowledge of an elementary German grammar is requisite, to be tested by the translation into German of some fifteen sentences. About 300 pages of graduated narrative prose, one short play, and such poetry as is usually found in a First Reader will be considered an adequate preparation.

Advanced (counting two units). Candidates in Advanced German must have had a four-years' course of at least four periods a week. They should be well trained in the syntactical laws of the language, have read about 800 pages of good literature in prose, preferably such prose works as are given in the Report of the Committee of Twelve of the Modern Language Association, and poetry, especially dramas by Lessing, Schiller, and Goethe, and studied an elementary history of German literature. German composition should comprise a number of short themes upon assigned historical or literary topics, lives of the authors read, etc.

HISTORY.

In this subject special importance is attached to preparation in geography.

Ancient (counting one unit).

(a) Greek History, through the Roman Conquest; as much as is contained in Myers' History of Greece.

(b) Roman History; as much as is contained in Allen's History of the Roman People.

Mediæval and Modern European History (counting one unit). As much as is contained in Myers' History of Mediæval and Modern Europe.

English History (counting one unit). As much as is contained in Larned's History of England.

American History with the Elements of Civil Government (counting one unit). As much as is contained in Fiske's History of the United States, and Fiske's Civil Government.

MATHEMATICS.

Elementary Algebra (counting one unit).

i. Algebra to Quadratics:

The four fundamental operations for rational algebraic expressions, factoring, highest common factor, lowest common multiple, complex fractions, the solution of equations of the first degree containing one or more unknown quantities, radicals, including the extraction of the square root of polynomials and numbers, and fractional and negative exponents.

ii. Quadratics, etc.:

Quadratic equations and equations containing one or more unknown quantities that can be solved by the methods of quadratic equations, problems depending upon such equations, ratio and proportion, and the binomial theorem for positive integral exponents.

✓ *Advanced Algebra* (counting one-half unit).

i. Progressions, etc.:

The progressions, the elementary treatment of permutations and combinations, and the use of four and five place tables and logarithms.

ii. Series, etc.:

Undetermined coefficients, the elementary treatment of infinite series, the binomial theorem for fractional and negative exponents, and the theory of logarithms.

iii. Theory of equations.

Determinants and the elements of the theory of equations, including Horner's method for solving numerical equations.

Plane Geometry (counting one unit).

The solution of simple original exercises and numerical problems.

Solid Geometry (counting one-half unit).

Properties of straight lines and planes, of dihedral and polyhedral angles, of projections, of polyhedrons, including prisms, pyramids, and the regular solids; of cylinders, cones, and spheres, of spherical triangles, and the measurement of surfaces and solids.

Plane Trigonometry (counting one-half unit).

The definitions and relations of the six trigonometrical functions as ratios, proof of important formulæ, theory of logarithms and use of tables, solution of right and oblique plane triangles.

PHYSICS.

(Counting one unit.)

It is recommended that the candidate's preparation should include:

- a. Individual laboratory work, comprising at least thirty-five exercises well distributed over the subjects of physics.
- b. Instruction by lecture-table demonstrations.

- c. The study of at least one standard text-book, supplemented by the use of many and varied numerical problems. The metric system should be familiar to the student.

The laboratory note book must be submitted for inspection, whether the candidate is admitted on certificate or by examination.

CHEMISTRY.

(Counting one unit.)

The candidate's preparation in chemistry should include:

- a. Individual laboratory work, comprising at least forty experiments of a character analogous to those set forth in Document No. 25 of the College Entrance Examination Board.

On application for admission to this University, every candidate seeking credit in chemistry must present a note book in which he has recorded the steps and the results of his laboratory exercises. This note book must contain an index to its contents, and must bear an endorsement of the teacher who directed the student, written in ink on the inside of the cover, in the following form:

I certify that this note book is the true and original record of experiments actually performed by _____ in the chemical laboratory of _____ school during the year 19—.

(Signed)

Title _____ [Instructor] in Chemistry.

b. Instruction by lecture-table demonstrations to be used in instructing the student as to methods of manipulation and as a basis for questioning him upon the general principles involved in his laboratory experiments.

- c. The study of at least one modern text-book, to the end that the student may gain a comprehensive and connected view of the most important facts and laws of elementary chemistry.

Requirements. The ground to be covered should include the following: The chief physical and chemical characteristics, the isolation and the recognition of the following elements and the preparation and study of their principal compounds: *Oxygen, hydrogen, carbon, nitrogen, chlorine, bromine, iodine, fluorine, sulphur*, phosphorus, silicon, potassium, *sodium*, calcium, magnesium, *zinc*, copper, mercury, silver, aluminum, *lead*, tin, *iron*, manganese, chromium.

The more detailed study should be confined to the italicized *elements* (as such) and to a restricted list of compounds, such as water, hydrochloric acid, carbon monoxide, carbon dioxide, oxides of nitrogen, nitric acid, ammonia, sulphur dioxide, sulphuric acid, hydrogen sulphide, sodium hydroxide, ammonium hydroxide.

Attention should be given to the atmosphere (constitution and relation to animal and vegetable life), flame, acids, bases, salts, oxidation and reduction, crystallization, combining proportions by weight and volume, calculations founded on these and on Boyle's and Charles's laws, symbols, formulas, equations and nomenclature, atomic theory, atomic weights, nascent state, natural groupings of the elements, solution (solvents and solubility of gases, liquids, and solids), strength of acids and bases, conservation and dissipation of energy, chemical energy and electrolysis, and of valence, electrolytic dissociation, osmosis, mass action in a very elementary way. Chemical terms should be clearly understood, and the student should be able to illustrate and apply the ideas that they embody. The theoretical topics are not intended to form separate subjects of study, but to be taught only so far as is necessary for the correlation and explanation of the experimental facts. The facts should be given as examples from various classes and not as isolated things.

BOTANY.

(Counting one unit.)

Candidates must have had at least one year's full work in Botany, comprising the general principles of morphology, physiology, and ecology, as well as the natural history of plant groups and classification. Bergen's *Foundations of Botany* and Atkinson's *Elementary Botany* indicate the general scope of the work required.

ZOÖLOGY.

(Counting one unit.)

In general, Zoölogy is not recommended as an entrance subject unless the subject has been preceded or accompanied by that of physics and chemistry, which form the most desirable groundwork for collegiate courses in biology. The entrance examination in zoölogy is designed to test, first, the candidate's practical acquaintance with the natural history, structure, and relationships of some of the leading types of animals, and, second, his knowledge of the more essential facts of physiology.

Practical Zoölogy. A practical examination of at least ten common animal types, and the presentation by the candidate of a laboratory note book, certified by the teacher, as evidence of a laboratory course actually performed. Examples of the types suggested are the frog, fish, mollusk, insects, crustaceans, annelid, starfish, hydroid (hydra), and protozoan. In the examination less weight is laid on

a knowledge of anatomical *minutiae* than on the ability to recognize the specimen and its allies, to indicate its relationship, and to point out the leading features of its life history, organization, and physiology.

Elementary Physiology. The nature of foods and their history in the body; the essential facts of digestion, absorption, circulation, secretion, excretion, and respiration; the motor, nervous, and sensory functions, and the structure of the various organs by which these operations are performed. Martin's *Human Body* (briefer course) forms a suitable basis for this work, but teachers are recommended as far as possible to correlate the physiology of man and the higher animals with that of the lower forms studied in the course of practical zoölogy.

PHYSIOGRAPHY.

(Counting one unit.)

The equivalent of Davis's Physical Geography, together with an approved laboratory and field course of at least forty exercises actually performed by the candidate.

The candidate will be required to present at the time of his examination the original note book in which he recorded, with dates, the steps and results of his laboratory exercises. This book, which should contain an index of subjects, must bear the endorsement of the teacher, certifying that it is a true record of the candidate's work.

DRAWING.

(Counting one unit.)

The candidate's preparation in drawing should include simple geometrical, plane, and solid figures and simple pieces of machinery, with a fair knowledge of the rules of perspective and light and shade as applied in freehand sketching. The candidate should be able to reproduce from a flat copy with enlargement or reduction of size.

For courses in architecture, the preparation should include, in addition to the above, the drawing of simple pieces of architectural ornament (a Greek anthemium, a design of iron scrollwork, etc.).

For courses in engineering, the preparation should include the copying of machinery details.

For courses in general science or in science for teachers, the preparation should include the copying of still life and simple plant forms.

SHOPWORK.

Candidates who have been trained in manual-training schools or in commercial shops in the use of tools and in the ordinary processes employed in the working of wood or metal may receive admission credits for such work. They should submit letters from their teachers or employers, stating the character of the work in which they have been trained and the time given to it. The amount of credit will vary according to circumstances, but it will not exceed two units.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study. They must be familiar with the subjects preliminary to the studies which they wish to pursue.

AUDITORS.

Certain courses are open to the public on payment of an auditor's fee. Auditors are without responsibility for class exercises or examinations, and they will receive no credit on the records.

REQUIREMENTS FOR DEGREES.

The undergraduate degrees offered by Columbian College are Bachelor of Arts and Bachelor of Science. To be recommended for either of these degrees, the student must be registered for at least one academic year, must satisfy the admission requirements, and must complete at least sixty hours of undergraduate courses with the requisite grades.

The studies to be taken by a student during his college course, while largely elective, should be chosen with careful attention to their relation to each other and to his aims and purposes for the future. In general, the courses to be taken during the early years are those given under the first section in University Subjects, while

courses under the second section are elected during the latter part of the course. No time limit is prescribed, and the degree is given when the total of prescribed and elective courses is completed.

BACHELOR OF ARTS COURSE.

To be recommended for the degree of Bachelor of Arts, the student must complete courses of study aggregating at least sixty units. The unit of credit is one hour of recitation or lecture work per week for one academic year. Laboratory hours in Chemistry and in Architecture count one-third unit each, in other subjects one-half unit each. Fifteen of these units are prescribed studies and forty-five are electives. The prescribed studies are the following:

	Units.
English, 1 or 2.....	3
Mathematics, 3, 5, 7.....	3
Latin or Greek, 1.....	3
French or German.....	3
Philosophy, 1.....	3

BACHELOR OF SCIENCE COURSES.

General Course for the Degree of Bachelor of Science.

To be recommended for the degree of Bachelor of Science, the student must complete courses of study aggregating at least sixty units. The unit of credit is one hour of recitation or lecture work per week for one academic year. Laboratory hours in Chemistry and in Architecture count one-third unit, in other subjects one-half unit each.

Fifteen of these units are prescribed studies and forty-five are electives. The prescribed studies are the following:

	Units.
English, 1 or 2.....	3
Mathematics	3
French or German.....	3
Sciences	6

For the Degree of Bachelor of Science in Chemistry.

Freshman Year.

	Units.		Units.
Chemistry, 1, 2.....	5	Mathematics, 3, 5, 7.....	3
General Chemistry		Solid Geometry; Algebra	
Laboratory Practice		Plane Trigonometry	
English, 1	3	French or German.....	3
Rhetoric		Graphics, 1.....	2
		Mechanical Drawing	

Sophomore Year.

Chemistry, 3, 20.....	5	Physics, 1, 2.....	5
Chemical Preparations		General Physics	
Qualitative Analysis		Physical Laboratory	
French or German.....	3		
Mathematics, 9, 11.....	3		
Analytic Geometry			
Spherical Trigonometry			

Junior Year.

Architecture, 1.....	1	French or German.....	3
Freehand Drawing		Graphics, 2.....	2
Chemistry, 4, 21, 23.....	6	Advanced Mechanical	
Assaying		Drawing	
Quantitative Analysis		Geology, 1.....	2
Organic Chemistry		Mineralogy	

Senior Year.

Chemistry, 6, 24, 25, 26, 27.	11	Economics or History....	2
Metallurgy; Organic Chemistry, lectures and laboratory		Geology, 2.....	2
Physical Chemistry, Stereo-Chemistry		Geology	

For the Degree of Bachelor of Science in Politics.

This is a course requiring for admission the subjects for the regular Bachelor of Science course, and for graduation sixty units of credit with required subjects limited to English, Modern Languages, History, and the Political Sciences. The course is designed primarily to lead to the graduate work of the Department of Politics and Diplomacy. On the completion of forty-five units of credit in the College the first year's work of the course for Master of Diplomacy may be taken, crediting fifteen units in the College and completing the course for the degree of Bachelor of Science in Politics.

This College course for Bachelor of Science in Politics is correlated in a similar way with the Department of Law.

The course is designed also to minister to the increasing interest in political studies and in higher commercial education. The prescribed studies are the following:

	Units.
English, 1 or 2.....	3
Modern Languages (including French).....	9
History (including American, English, and Modern European History)	9
Economics, Finance, and Political Science.....	12

UNDERGRADUATE AND PROFESSIONAL COURSES.

Undergraduate students upon the completion of forty-five units of credit may take the first year's work of the course for Doctor of Medicine, Bachelor of Laws, or Master of Diplomacy, crediting them fifteen units in the College, on the completion of which they may receive the Bachelor's degree.

PRIZES.

Only candidates for degrees may compete for these prizes.

STAUGHTON AND ELTON PRIZES.—The Staughton Prize, for excellence in the Latin Language and Literature, and the Elton Prize, for excellence in the Greek Language and Literature, founded by the Rev. Romeo Elton, D.D., of Exeter, England, consist of two gold medals, annually awarded to the best scholar in each of these languages.

RUGGLES PRIZES.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

MUNROE PRIZE.—Professor Munroe offers a gold medal to that student from any Washington high school or the Manual Training School who shall attain the highest mark in Chemistry among those passing the entrance examinations, and shall remain in regular attendance for one year.

CLASS OF '96 JAMES MACBRIDE STERRETT, JR., MEMORIAL MEDAL.—This prize is annually awarded to that student taking Course 1 in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

DAVIS PRIZES.—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Members of the Senior Class are eligible to compete for these prizes.

DAUGHTERS OF THE AMERICAN REVOLUTION PRIZES.—These prizes, founded by the Daughters of the American Revolution of the District of Columbia, consist of two gold medals, awarded annually to the two students in the graduating class who, having maintained a high standing in the regular courses in Mediæval, Modern, European, English, and American History during three years, shall produce the best essays upon an assigned topic of American history.

THOMAS F. WALSH PRIZE IN IRISH HISTORY.—This prize is a gold medal, awarded to that student in the graduating class who, having maintained a high standard in the regular courses of Mediæval, Modern, European, American, and English History, shall produce the best essay based upon the study of some period of Irish history.

E. K. CUTTER PRIZE.—The E. K. Cutter Prize in English was founded by the late Marion Kendall Cutter. The endowment is a fund of one thousand dollars, the income of which is given annually as a prize "for excellence in the study of English." The prize will be awarded to that member of the graduating class whose record in English, combined with general excellence, shows most marked aptitude and attainment in English studies.

WILLIE E. FITCH PRIZE.—The Willie E. Fitch Prize, for highest excellence in all branches of Chemistry, founded by James E. Fitch, Esq., in memory of his son, consists of fifty dollars, which is awarded annually for the best examination in Chemistry.

PRIZE AWARDS, 1904-05.

Staughton Prize	Augusta Moulton De Forest
Elton Prize	Maud Esther McPherson
Ruggles Prize	Edwin Vivian Dunstan
Class of '96 James Macbride Sterrett, Jr., Memorial Medal	Warren Seymour Orton
Davis Prizes.....	First Prize: Otto Louis Veerhoff
	Second Prize: Amy Louise Warn
	Third Prize: George Foster Harley
Daughters of the American Revolution Prizes	Amy Louise Warn
	Augusta Moulton De Forest
Thomas F. Walsh Prize.....	Augusta Moulton De Forest
E. K. Cutter Prize.....	Maud Esther McPherson
Schmidt Prize.....	Elton W. Miller
Muth Prize.....	John Hanson Boyden

SCHOLARSHIPS.

Applications for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarship will be revoked.

KENDALL SCHOLARSHIP.—The Kendall Scholarship, founded by the late Hon. Amos Kendall, is annually conferred on that student from any of the Washington High Schools or from the Manual Training School who attains the highest average in the May entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory, and graduation fees.

UNIVERSITY SCHOLARSHIPS.—The University offers also six scholarships, each continuing throughout the undergraduate course, to be awarded annually to members of the graduating classes of the high schools of Washington and of the Manual Training School. The scholarships will be divided among the several schools in proportion to the number of students in attendance upon each. Three scholarships are offered to young men and three to young women. No scholarship will be awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships will take the May entrance examinations for the undergraduate course leading to the degree of Bachelor of Arts or the degree of Bachelor of Science, as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships will be expected to pursue a regular course in the Department of Arts and Sciences leading to a degree. Such students will pay only the matriculation, library, laboratory, and graduation fees.

DAVIS SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in October, 1869, by Hon. Isaac Davis, of Massachusetts.

MARY LOWELL STONE SCHOLARSHIP.—This scholarship was founded by a woman in memory of a woman student of science. It consists of a fund of two thousand dollars, the income from which is to be paid to needy women students of science in the University; it will be awarded by the President's Council.

MARIA M. CARTER SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Maria M. Carter.

FARNHAM SCHOLARSHIP.—This is the income of a fund of one thousand dollars given to the University in 1871 by Mrs. Robert Farnham.

ADMIRAL POWELL SCHOLARSHIPS.—The Admiral Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy

at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer Department of the Navy, or to those who desire to fit for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	Hours.
Navigation and Nautical Astronomy.....	6
Algebra and Geometry.....	3
Trigonometry	1½
Mechanical and Machine Drawing.....	4
Meteorology	2
English	3
French	3
German	3
Spanish	3
International Law	1
Commercial Geography	1
Admiralty Law	½
Boilers and Power Plants	3
Measurement of Power	3
Dynamo theory	2
“ testing	3

DAVIS PRIZE SPEAKING.

The Davis Prize Speaking is held in University Hall on the Wednesday after the Easter holidays. The Davis Prizes were founded by Hon. Isaac Davis, of Massachusetts, in 1847. The original endowment was five hundred dollars, "proceeds of which will afford three premiums, in cash or gold medals, of the value of \$5, of \$10, and of \$15 annually—these premiums or prizes to be

distributed annually to such members of the senior class as shall have made the greatest progress in elocution since their connection with the College."

The award of these three prizes is determined by a public speaking contest, in which the participants deliver original orations. Senior students wishing to enter the competition should report to the Head Professor of English not later than five weeks before the contest, and submit their orations not later than three weeks before the contest. The prizes are awarded by a committee consisting of three members, selected by the President's Council.

ENOSINIAN SOCIETY.

The Enosinian Society, a literary association formed by the students of Columbian College, to which any University student is eligible, meets regularly for the purpose of improvement in debate and composition.

This society had its beginning March 6, 1822, during the first session of Columbian College, when a number of students held a meeting "for the purpose of establishing a debating society." Two Enosinian prizes are given annually and are publicly delivered at the Commencement. They are the following:

DEBATERS' PRIZE.—A gold medal given by the Society for proficiency in debate. This prize was awarded in 1905 to Augusta Moulton De Forest.

GORE PRIZE IN PARLIAMENTARY LAW.—A gold medal given by Prof. James Howard Gore for proficiency in parliamentary law. This prize was awarded in 1905 to Walter J. Bennett.

THE COLLEGE CHAPEL.

Chapel services are conducted in West Hall on Monday, Tuesday, Thursday, and Friday mornings throughout the academic year, at 9.10 o'clock. The College Chapel is conducted by the Faculty, and all students are invited to help sustain the service. On Wednesdays, at 12 o'clock, the College students participate in the University Assembly, which is held in University Hall.

The Dean of the College will confer with students on questions concerning their welfare and will co-operate with them in furthering the ethical and religious interests of the College.

Official announcements are made regularly at the University Assembly, and professors and students are expected to be governed by them.

III. WASHINGTON COLLEGE OF ENGINEERING.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.,.....	PRESIDENT OF THE UNIVERSITY
HOWARD LINCOLN HODGKINS, Ph.D....	Dean and Professor of Physics
JAMES HOWARD GORE, Ph.D.....	Professor of Mathematics
HERMANN SCHOENFELD, Ph.D., LL.D.....	Professor of German
CHARLES E. MUNROE, Ph.D.....	Professor of Chemistry
WILLIAM ALLEN WILBUR, A.M.....	Professor of English
GEORGE N. HENNING, A.M.....	Professor of Romance Languages
PERCY ASH, C.E.....	Professor of Architecture
GEORGE P. MERRILL, Ph.D.....	Professor of Geology and Mineralogy
HENRY A. PRESSEY, Ph.D.....	Professor of Civil Engineering
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....	Professor of Economics
FRANK VAN VLECK, M.E.....	Professor of Mechanical Engineering
EDWARD ADAMS MUIR, B.S.....	Assistant Professor of Graphics
N. MONROE HOPKINS, Ph.D.....	Assistant Professor of Chemistry
PHILANDER BETTS, E.E....	Assistant Professor of Electrical Engineering
EDWIN A. HILL, Ph.D.....	Assistant Professor of Chemistry
THOMAS MALCOLM PRICE, Ph.D.....	Assistant Professor of Chemistry
R. S. BASSLER, Ph.D.....	Assistant Professor of Geology
SHERMAN M. WOODWARD, M.S.....	Acting Assistant Professor of Mechanical Engineering
OSCAR QUICK, A.M.....	Instructor in Physics
F. L. MOLBY.....	Instructor in Freehand Drawing
ISAAC ALLISON, E.E.....	Instructor in Graphics
OTIS D. SWETT, B.S.....	Instructor in Chemistry
PAUL NOBLE PECK, A.M.....	Instructor in Mathematics
DE WITT C. CROISSANT, A.B.....	Instructor in English
OSCAR L. KEITH, A.M.....	Instructor in Romance Languages
ALFRED F. W. SCHMIDT, A.M.....	Instructor in German
EDWIN V. DUNSTAN, B.S.....	Instructor in Civil Engineering
ARTHUR B. ILSLEY, B.S.....	Instructor in Civil Engineering
EDWIN SMITH, JR.....	Assistant in Chemistry
WILLIAM E. HILLYER, M.S.....	Assistant in Chemistry

The session of 1906-1907 begins Wednesday, September 26, 1906.

The main building of the University, in which the general studies in this department are conducted, is University Hall, corner Fifteenth and H streets, N. W. The office of the Dean of the College is in this building.

The engineering laboratories and the shops and drawing rooms are in the Van Ness House, on the new site of the University, Seventeenth and B streets N. W. A number of the class-room courses in engineering are also given in this building.

ADMISSION.

Every applicant for admission is required to present a testimonial of good character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required subjects. Certificates, in lieu of any or all examinations, will be accepted from schools whose work is attested by well-prepared students admitted to the University in previous years, and from schools desiring co-operation with the University, that present evidence of affording adequate preparation in the required subjects. The Registrar of the University will, on application, furnish certificate blanks to the principals of such accredited schools.

The certificate of the College Entrance Examination Board will be accepted in so far as the subjects specified meet the requirements for admission.

The certificate of the Washington high schools covering all the requirements for admission admits students without examination to the courses of the Freshman year.

The certificates of all schools accredited to the University will be accepted in so far as they specifically meet the requirements for admission.

The general requirement for admission is a four-year high school course, or its equivalent, consisting usually of four or five recitations per week in four or more topics. The high school studies which may be presented in satisfaction of the requirements of admission are given on pages 40-41 of this Catalogue.

Candidates for admission to the Freshman Class in the College of Engineering are required to present fifteen units for admission, distributed as follows:

	Units.
English	4
French or German.....	4
Plane and Solid Geometry.....	1½
Elementary and Advanced Algebra.....	1½
Plane Trigonometry	½
Chemistry	1
Physics	1
Electives	1½

NOTE.—The modern language requirement may be satisfied by presenting four units in one language, or two units in French and two units in German. Students who present four units in one language will study the other language two years in College. Students who present two units in French and two units in German will study each language one year in College.

ADMISSION TO ADVANCED STANDING.

Candidates for admission to advanced classes in any department are examined in all indispensable preliminary studies.

Due credit is given for properly certified courses of study pursued in other colleges and universities.

ADMISSION TO SPECIAL COURSES.

All the courses of instruction are open to students of suitable age and attainments who wish, without reference to any degree, to pursue special studies. Candidates are examined in each special study. They must be familiar with the subjects preliminary to the studies which they wish to pursue.

AUDITORS.

Certain courses are open to the public on payment of an auditor's fee. Auditors are without responsibility for class exercises or examinations, and they will receive no credit on the records.

COURSES FOR A DEGREE.

Three courses of study are offered:

- I. CIVIL ENGINEERING.
- II. ELECTRICAL ENGINEERING.
- III. MECHANICAL ENGINEERING.

These courses occupy four years each, and lead to the degree of Bachelor of Science in Civil Engineering, in Electrical Engineering, and in Mechanical Engineering, respectively. Graduate courses of one year under the Faculty of Graduate Studies of the George Washington University are open to those who receive the above degrees, and lead, respectively, to the degrees of Civil Engineer, Electrical Engineer, and Mechanical Engineer.

The courses in engineering are planned to give the student a thorough understanding of the theory underlying engineering practice, and such a practical knowledge of the instruments and methods

of his particular profession as will enable him to apply the theory properly. In all the courses a thorough training in mathematics, pure and applied, and in drawing and descriptive geometry is required as the basis of the analytical and graphical study of engineering topics. Much stress is laid on the work in the drawing-room and laboratory. The work is planned to give him a thorough knowledge of principles upon which he may build, and by which he may be able to solve the new problems he meets in practice.

The work of the first year is the same for all students. It is taken up partly with general studies which have both an educational and a cultural value, and partly with work in mathematics and drawing which lays the foundations for the subsequent courses. In each of the other years there are studies taken in common by all engineering students, these studies including courses in English, in French and German, in pure and applied mathematics, in drawing and descriptive geometry, in chemistry and in physics. The requirement in French and German is intended to give the student an accurate reading knowledge of these languages, with particular reference to scientific literature.

Beginning with the Sophomore year, the Civil Engineering student enters upon his technical studies, continuing at the same time a number of topics of a more general character, and in the Junior and Senior years the work becomes yet more specialized. He begins with a general course in surveying and follows this with courses in railroad and highway location and construction. Theoretical hydraulics and hydraulic engineering receive careful and detailed treatment and much stress is laid on sanitary work, both in its theory and applications. A preliminary course in engineering materials and simple constructions in the Sophomore year is followed in later years by extended courses in mechanics of materials, and in the theory and design of structures in wood, steel, and masonry, in which are applied the knowledge gained in the courses in mechanics and graphic statics.

The courses for Electrical and Mechanical Engineering students are the same during the Sophomore year, and beside the general studies required of all engineering students include courses in advanced drawing and design and in kinematics of machinery. Shopwork begins in this year and continues until the end of the course for both classes of students, although the Electrical students give less time to it than do the Mechanical students. The purpose of the work is not primarily to give manual skill, but to give such an understanding of tools and processes as will be of assistance in designing and in superintending. In the Junior Year Electrical and Mechanical students continue work in machine design, and take courses in steam engineering and on boilers and power plants.

The Electrical students begin their special work in electricity in the Junior Year. Theoretical electricity is first studied, and is followed by

engineering electricity, and by courses on direct current machinery. In the laboratory, experimental work in exact measurements is followed by the study of the dynamo. In the drawing-room are studied related problems in design. In the Senior Year alternating current machinery is studied, both theoretically and practically; and courses on the applications of electricity and on light and power distribution are taken. Many hours are given to work in the electrical and general engineering laboratories.

The Mechanical Engineering students, in addition to the courses which they take in common with the electrical students, have courses in engine design, including steam and gas engines; in hydraulic and hydraulic machinery; in machinery of transmission; and a brief course in engineering electricity, considering electrical machinery from the standpoint of one who is to use it rather than to design it.

The engineering courses are partly lecture and partly laboratory and drawing-room courses, the plan being to give the theory in the classroom, to illustrate the theory in the laboratory, and to have the student apply the theory, from given data, in the drawing-room.

REQUIREMENTS FOR A DEGREE.

The arrangement of the topics in each of the regular courses for a degree is shown below. The numbers following the names of subjects refer to the courses as given in the list of University Subjects on pages 73 to 129, to which reference should be made for more complete description.

COMMON TO ALL COURSES.

Freshman Year.

	Units.
Architecture, I	1
Freehand Drawing.	
Chemistry, I, 7	5
General Chemistry and Qualitative Analysis.	
English, I or 2	3
Rhetoric.	
French or German	3
Graphics, I	2
Mechanical Drawing.	
Mathematics, 9, 11 or 12, 14.....	3
Trigonometry; Analytic Geometry.	

CIVIL ENGINEERING COURSE.

Sophomore Year.

	Units.
Civil Engineering, 1, 4	5
Surveying; Materials of Construction.	
French or German	3
Graphics, 8, 10.....	4
Descriptive Geometry; Topographic Drawing.	
Mathematics, 20, 22 or 21, 22.....	3
Calculus; Differential Equations.	
Physics, 1, 2.....	5
General Physics; Laboratory Physics.	

Junior Year.

	Units.
Applied Mathematics, 20, 21	4½
Mechanics; Hydraulics.	
Astronomy	2
Civil Engineering, 2, 3, 5, 7.....	7
Railroad Engineering; Highways and Pavements;	
Water-works; Engineering Testing.	
Electrical Engineering, 6	1
Industrial Engineering.	
Graphics, 20	3
Graphic Statics.	
Geology	2

Senior Year.

	Units.
Applied Mathematics, 22	2
Mechanics of Materials.	
Chemistry, 6	1
Metallurgy.	
Civil Engineering, 6, 20, 21, 22.....	11½
Sewerage; Masonry; Hydraulic Engineering;	
Framed Structures.	
Economics	2
Mechanical Engineering, 5.....	2
Steam Engineering.	

ELECTRICAL ENGINEERING COURSE.

Sophomore Year.

	Units.
French or German	3
Graphics, 2, 8	5
Advanced Mechanical Drawing; Descriptive Geometry.	
Mathematics, 20, 22 or 21, 22.....	3
Calculus; Differential Equations.	
Mechanical Engineering, 2, 8.....	4
Mechanism; Shop-work.	
Physics, 1, 2.....	5
General Physics; Laboratory Physics.	

Junior Year.

	Units.
Applied Mathematics, 20, 21	4½
Mechanics; Hydraulics.	
Electrical Engineering, 1, 2, 3, 4, 5.....	8
Elementary Electricity; Direct Current Machinery; Electrical Engineering; Electrical Measurements; Electrical Engineering Laboratory.	
Mechanical Engineering, 1, 3, 5, 8.....	6½
Machine Design; Boilers and Power Plant; Steam Engineering, Shop-work.	

Senior Year.

	Units.
Applied Mathematics, 22	2
Mechanics of Materials.	
Chemistry, 6	1
Metallurgy.	
Electrical Engineering, 21, 22, 23, 24.....	10
Alternating Currents; Electrical Distribution; Electrical Applications; Electrical Engineering Laboratory.	
Economics	2
Mechanical Engineering, 4, 23, 25.....	4
Boilers and Power Plants; Hydraulic Machinery; Engineering Laboratory.	

MECHANICAL ENGINEERING COURSE.

Sophomore Year.

	Units.
French or German	3
Graphics, 2, 8	5
Advanced Mechanical Drawing; Descriptive Geometry.	
Mathematics, 20, 22 or 21, 22.....	3
Calculus; Differential Equations.	
Mechanical Engineering, 2, 8.....	4
Mechanism; Shop-work.	
Physics, 1, 2.....	5
General Physics; Laboratory Physics.	

Junior Year.

	Units.
Applied Mathematics, 20, 21.....	4½
Mechanics; Hydraulics.	
Graphics, 20	3
Graphic Statics.	
Mechanical Engineering, 1, 3, 5, 6, 7, 9.....	11½
Machine Design; Boilers and Power Plants; Steam Engineering; Engineering Drawing; Mechanical Laboratory; Shop-work.	

Senior Year.

	Units.
Applied Mathematics, 22	2
Mechanics of Materials.	
Chemistry, 6	1
Metallurgy.	
Economics	2
Electrical Engineering, 7	3
Dynamometers and Motors.	
Mechanical Engineering, 4, 10, 20, 21, 23, 24, 25.....	10
Boilers and Power Plants; Shop-work; Steam Engineering; Gas Engines; Hydraulic Machinery; Machinery of Transmission; Mechanical Labora- tory.	

PRIZES.

Only candidates for degrees may compete for these prizes.

RUGGLES PRIZES.—The Ruggles Prizes, for excellence in Mathematics, founded by Professor William Ruggles, LL.D., consist of two gold medals, annually awarded upon examination to the best two scholars in Mathematics.

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CLASS OF '96 JAMES MACBRIDE STERRETT, JR., MEMORIAL MEDAL.—This prize is annually awarded to that student taking Course I in Physics who obtains the highest average in a special examination on a given subject and in the writing of an essay on an assigned topic.

DAVIS PRIZES.—The Davis Prizes, for excellence in Elocution, founded by the Hon. Isaac Davis, LL.D., of Massachusetts, consist of three gold medals, annually awarded to the successful competitors in a public contest. Members of the Senior Class are eligible to compete for these prizes.

SCHMIDT PRIZE.—Mr. Fred. A. Schmidt offers a prize to the student who attains the highest standing in Descriptive Geometry, Trigonometry, and Analytic Geometry.

MUTH PRIZE.—Geo. F. Muth & Co. offer a set of Drawing Instruments to the student taking Machine Drawing who makes the highest average record in that subject and in the previous year's Mechanical Drawing.

SCHOLARSHIPS.

Application for scholarships should be filed with the Dean not later than September fifteenth. All scholarships except the Kendall Scholarship and the University Scholarships are awarded for one year only, but they may be renewed. Any student holding a scholarship who fails to obtain a general average of 85 per cent. on the work of any term or whose deportment is unsatisfactory will be reported to the President's Council, and in the absence of extenuating circumstances the scholarships will be revoked.

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Training School who attains the highest average in the May entrance examinations. This scholarship continues throughout the undergraduate course, and the student holding it pays only the matriculation, library, laboratory and graduation fees.

UNIVERSITY SCHOLARSHIPS.—The University offers also six scholarships, each continuing throughout the undergraduate course, to be awarded annually to members of the graduating classes of the high schools of Washington and of the Manual Training School. The scholarships will be divided among the several schools in proportion to the number of students in attendance upon each. Three scholarships are offered to young men and three to young women. No scholarship will be awarded to a candidate whose examination average is below 80 per cent. Candidates for these scholarships will take the May entrance examinations for the undergraduate course leading to the degree of Bachelor of Arts or the degree of Bachelor of Science, as they shall elect, and on the results of these examinations the scholarships will be assigned. Holders of these scholarships will be expected to pursue a regular course in the Department of Arts and Sciences leading to a degree. Such students will pay only the matriculation, library, laboratory, and graduation fees.

HENRY HARDING CARTER SCHOLARSHIP.—These scholarships, founded by Mrs. Maria M. Carter in memory of her husband, Henry Harding Carter, consist of four scholarships of the annual value of fifty dollars each, and may be awarded to deserving students who are preparing for the civil engineering profession.

ADMIRAL POWELL SCHOLARSHIPS.—The Admiral Powell Scholarships were founded by the late Admiral Powell, U. S. Navy. The income from this endowment is for "the free education of such young men as may desire to take advantage of the said endowment by way of their preparation for entrance into the Naval Academy at Annapolis, Maryland, or such as may fit them to become mates or masters in the Merchant Marine Service of the United States," and of "such apprentices as, having filled their time in the great steam manufactory establishments of the country, may apply for appointment from civil life in the Steam Engineer Department of the United States Navy." The number of scholarships awarded each year will be determined by the income from the endowment. Each scholarship will entitle the beneficiary to free tuition for one year. Such special courses of study are offered to each student as will give him the instruction needed to accomplish the purpose for which he is awarded the scholarship.

These scholarships are especially applicable to those who intend to come up for examination as warrant officers in the Engineer

Department of the Navy, or to those who desire to fit for responsible positions in the mercantile marine.

The subjects to be taken by a student will vary according to his preparation and according to the purpose for which he has been awarded the scholarship, but a year's work can be selected from the following topics:

	Hours.
Navigation and Nautical Astronomy.....	6
Algebra and Geometry.....	3
Trigonometry	1½
Mechanical and Machine Drawing.....	4
Meteorology	2
English	3
French	3
German	3
Spanish	3
International Law	1
Commercial Geography	1
Admiralty Law	½
Boilers and Power Plants.....	3
Measurement of Power	3
Dynamo Theory	2
Dynamo Testing	3

IV. DIVISION OF ARCHITECTURE.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.,.....	PRESIDENT OF THE UNIVERSITY
PERCY ASH, B.S.,.....	Professor of Architecture in charge of the Division of Architecture
JAMES HOWARD GORE, Ph.D.,.....	Professor of Mathematics
HOWARD LINCOLN HODGKINS, Ph.D.,.....	Professor of Physics
CHARLES E. MUNROE, Ph.D.,.....	Professor of Chemistry
HERMANN SCHOENFELD, Ph.D., LL.D.,.....	Professor of German
CHARLES CLINTON SWISHER, Ph.D., LL.D.,.....	Professor of History
WILLIAM ALLEN WILBUR, A.M.,.....	Professor of English
MITCHELL CARROLL, Ph.D.,.....	Professor of Classical Philology
GEORGE N. HENNING, A.M.,.....	Professor of Romance Languages
HENRY A. PRESSEY, Ph.D.,.....	Professor of Civil Engineering
GEORGE LANSING RAYMOND, L.H.D.,.....	Professor of Æsthetics
ALBERT BURNLEY BIBB,.....	Professor of Architecture
N. MONROE HOPKINS, Ph.D.,.....	Assistant Professor of Chemistry
EDWIN A. HILL, Ph.D.,.....	Instructor in Chemistry
F. L. MOLBY,.....	Instructor in Freehand Drawing
OTIS D. SWETT, B.S.,.....	Instructor in Chemistry
DE WITT C. CROISSANT, A.M.,.....	Instructor in English
OSCAR L. KEITH, A.M.,.....	Instructor in Romance Languages
PAUL N. PECK, A.M.,.....	Instructor in Mathematics
ISAAC ALLISON, B.S., E.E.,.....	Instructor in Graphics
ALFRED F. W. SCHMIDT, A.M.,.....	Instructor in German
EDWIN V. DUNSTAN, B.S.,.....	Instructor in Civil Engineering
CHARLES MASON REMEY,.....	Instructor in Architecture
EDWIN SMITH, JR.,.....	Assistant in Chemistry
HUBERT P. ILLMAN,.....	Assistant in Architecture

ADMISSION.

Every applicant for admission is required to present a testimonial of good moral character, and also a certificate of standing and regular dismissal from the school or college which he has attended or from the tutor with whom he has studied.

Candidates for admission to the Freshman Class may present certificates of admission or take an examination in the required books and subjects.

The general requirement for admission is a four-year high school course, or its equivalent, consisting usually of four or five recitations per week in four or more topics.

Candidates for admission to the course leading to the degree of Bachelor of Science are required to present subjects from the list of high school studies aggregating fifteen units, distributed as follows:

	Units.
English	4
French or German	2
Elementary Algebra	1
Plane Geometry	1
Physics	1
Chemistry	1
Electives	5

 15

The list of high school studies and the definition of requirements in all preparatory subjects are given on pages 40-50 of this Catalogue.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN ARCHITECTURE.

To be recommended for the degree of Bachelor of Science in Architecture the student must be registered in the Division of Architecture for at least one academic year, he must satisfy the admission requirements, and must complete the prescribed course for the degree. This is a four-year course. General culture studies are pursued through the first two years, about half of the time being devoted to them. The rest of the course is devoted to architectural work. The unit of credit is one hour of recitation or lecture per week throughout the academic year. Laboratory hours count one-third unit each.

First Year.

	Units.
English	3
Mathematics	3
French, Italian, or German.....	3
Chemistry	5
Architectural Drawing	4
Shades, Shadows, and Perspectives	2
Freehand Drawing	1

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Second Year.

	Units.
English	3
Mathematics	3
French, Italian, or German	3
Physics	5
Rendering, Design	4
Freehand Drawing	1
History of Architecture	2

21

Third Year.

	Units.
Mechanics of Material (First term)	3
Graphic Statics (Second term)	
Building Construction	2
Sanitary Engineering of Buildings	1
History of Architecture	3
Pen and Ink Rendering	1
Design and Sketch Design	6
Drawing from the Antique	2
Water Colors	1

19

Fourth Year.

	Units.
Design and Sketch Design—Thesis.....	7
Modeling (Architectural)	1
Pen and Ink Rendering	1
Classical Archæology	2
History of Painting and Sculpture	1
Building Construction	2
Drawing from Life	2
Water Colors	1
History of Architecture	3

20

A special course of three years may be arranged for qualified students who wish to take the purely technical work of the Architectural course. Special students may receive a certificate on the satisfactory completion of the course for which they are registered.

PRIZE.

The Washington Architectural Club offers membership in the Club as a prize in Architecture. In 1903-04 this prize was awarded to Charles R. Lombard. In 1904-05 to W. H. I. Fleming.

DEPARTMENT OF ARTS AND SCIENCES.

COURSES OF INSTRUCTION.

UNIVERSITY SUBJECTS.

University Subjects are divided into three sections, in accordance with the following requirement of an ordinance adopted by the Board of Trustees October 13, 1902:

ARTICLE IV.—*Development of University Subjects.*

SECTION I. Subjects shall be divided into three sections, as follows:

(1) The fundamental section, covering two years' work; this section to be assigned to students in the general-culture courses.

(2) The advanced section, not exceeding three years; this section to be assigned to students specializing for literary, scientific, professional, or industrial pursuits.

(3) The original research section; this section to be assigned to students pursuing a subject for discovery and broader culture.

The courses in the first section are sometimes recommended to graduate students, but are not ordinarily counted toward the higher degrees. The courses in the second section are in general for advanced students, candidates for the Bachelor's degree; they serve, however, with additional work as minors for the higher degrees, provided they have not already counted toward a degree. They may be taken by students in the second year of their course only by special permission of the professor in charge. The courses in the third section are in general for graduate students only, candidates for one or other of the higher degrees. They are open to undergraduates only on the recommendation of the instructors, and no undergraduate student shall take in one year more than one course in the third section. When an announced course has not been applied for by at least three students, candidates for a degree, the instructor may withdraw the course. First-section courses are numbered from 1 to 19, inclusive; second-section courses from 20 to 39, inclusive; third-section courses are numbered on from 40. The number of hours, unless otherwise specified, indicates hours per week throughout the year. The unit of credit is one hour of recitation or lecture work per week for one academic year; laboratory hours in Chemistry and Architecture count one-third unit each, in other subjects one-half unit each. Sixty units of credit is the minimum requirement for the Bachelor's degree. Laboratories and drawing-rooms will be open from 9.30 a. m.

till 10 p. m., with competent assistants in charge to direct students. No student is admitted to a course unless he fulfils all of the preliminary requirements for that course, or otherwise satisfies the instructor that he is prepared to pursue it. Every student must make his election of courses so as to avoid conflict between the hours appointed for recitations.

ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....	Professor
W. F. R. PHILLIPS, M.D.....	Assistant Professor
S. H. GREENE, JR., M.D.....	Instructor
J. L. RIGGLES, M.D.....	Instructor
GEORGE M. RUFFIN, M.D.....	Instructor

Second Section. For Undergraduates and Graduates.

20. The course in Anatomy is given in a series of lectures, demonstrations, recitations from text-books, and practical laboratory work. The purpose of the lectures is to prepare the student for his practical work in the laboratory. The lectures are illustrated by lantern slides, models, charts, and diagrams.

Primarily for students of medicine; open to advanced students in Arts and Sciences.

First half-year, *Mon. to Sat.*, incl., 8 a. m.

Laboratory, *Mon. to Fri.*, incl., 9-12 a. m.

Third Section. Primarily for Graduates.

40. ANATOMY OF THE NERVOUS SYSTEM.—This course includes laboratory work, readings, and recitations. The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the phylogeny of the central nervous system in man. The growth of the brain and its physical characters as related to intelligence are investigated. The histology and embryology of the central nervous system and the sense organs are studied. A history of the guiding conceptions in neurology is to be acquired. The course is designed to inculcate a sound knowledge of the architecture and functions of the nervous system of man for the use of students of anatomy, medicine, and psychology. Two hours. Professor SHUTE.

APPLIED MATHEMATICS.

HENRY A. PRESSEY, Ph.D.....*Professor*
 EDWIN V. DUNSTAN, B.S.....*Instructor*

Second Section. For Undergraduates and Graduates.

20. Analytical and Applied Mechanics. (1) Statics: including the composition, resolution, and equilibrium of forces; center of gravity; friction; machines. (2) Kinematics and Kinetics: including rectilinear and curvilinear motion; motion under action of variable forces and in resisting media; constrained and rotatory motion; impact; work and energy; moment of inertia. *Mon.*, at 9.30; *Wed.*, at 9; *Fri.*, at 9.30.

21. Hydraulics. The theoretical principles of hydraulics; hydrostatics; flow through orifices, over weirs, through pipes and in open channel; hydraulic formulas; coefficients; water mains; current meters, floats. Hydraulic experiments are conducted in the laboratory in connection with this course. Text-book, Merriman's Hydraulics. *Mon.*, at 10.30; *Wed.*, at 10; *Fri.*, at 10.30; first half-year.

22. Mechanics of Materials and Theory of Elasticity, including elastic and ultimate strength and deformation; simple, cantilever and continuous beams; columns; torsion; combined stresses; compound columns and beams, including reinforced concrete; resilience; work; fatigue; mathematical theory of elasticity. *Wed.*, *Fri.*, at 4.50.

ARCHÆOLOGY, CLASSICAL.

MITCHELL CARROLL, M.A., Ph.D.....*Professor*

Second Section. For Undergraduates and Graduates.

The following cycle of courses in Classical Archæology is given, extending over a period of three years. Each course consists of weekly lectures and conferences illustrated by maps, plans, photographs, and lantern slides, supplemented by a prescribed course of reading and the preparation of papers on special topics. The work constitutes a two-hour elective, or either the lectures on Mondays or the class conferences on Thursdays may be taken as a one-hour elective. A knowledge of Greek or Latin is not essential.

20. Topography and Monuments of (a) Athens and (b) Rome. A study of the history, topography, and monuments of the chief centers of ancient life. Given in 1906-07. *Mon.*, *Th.*, at 4.50.

21. Life of the Greeks and Romans. Selected topics in Private and Public Life; family organization; the state, the constitution, assemblies, magistracies; the ancient house, its architecture, furniture, and ornamentation; education, occupations, and amusements; dress, arms, and armor; religious festivals, rites, and ceremonies; and similar themes. Given in 1905-06. *Mon., Th.*, at 4.50.

22. Greek and Roman Architecture and Sculpture. Not given in 1906-07; given in 1907-08.

In all these courses considerable use is made of the illustrative material accessible in the Library of Congress, the Corcoran Gallery of Art, and the Smithsonian Institution.

ARCHITECTURE.

PERCY ASH, B.S.....	<i>Professor in charge</i>
ALBERT BURNLEY BIBB.....	<i>Professor</i>
CHAS. MASON REMEY.....	<i>Instructor</i>
FRANK L. MOLBY.....	<i>Instructor in Freehand Drawing</i>
HUBERT P. ILLMAN.....	<i>Assistant</i>

Instruction in drawing from the antique and life is given at the Corcoran Gallery of Art by Mr. Brooke, Miss Mueden, and Mr. Messer.

The following architects have given criticisms on design, in addition to the regular corps of instructors: Nathan C. Wyeth, Architecte diplômé par le Gouvernement; E. Frère Champney, E. W. Donn, Jr.

First Section. Primarily for Undergraduates.

1. Freehand Drawing. This course consists of drawing, in charcoal, of simple objects, in which particular attention is paid to the study of values and form. *Mon., Sat.*, at 5.40. Mr. MOLBY.

2. Freehand Drawing. For architectural students primarily. This course begins with drawing, in charcoal, of simple objects, such as cubes, cones, etc., and is followed by a series of drawings from architectural casts. Particular attention is paid to the study of values and form. *Mon., Sat.*, at 4.50. Mr. MOLBY.

3. Architectural Drawing and Elementary Design. This course includes the study of the Five Orders of Architecture, the use of India ink, and water-color rendering. In addition, each student is required to measure some building in the city, and from the notes thus obtained make a completed Rendu in India ink or color. Lectures on the Five

Orders on Tuesday, at 4.50 and instruction in the use of color and rendering in India ink on Thursday, at 4.50, and at least ten additional hours in the drafting-room. Professor ASH.

4. Shades, Shadows, and Perspectives. A course in orthographic projections, shades, shadows, and perspectives. *Wed., Fri.*, at 4.50. Mr. REMEY.

5. Rendering and Design. In this course the instructions in India ink rendering and the use of water colors given in the first year are continued. At least twelve hours each week are devoted to the problems in design. Six regular problems and six sketch problems constitute the course in design. Criticism, *Mon., Wed., Fri.*, at 10 a. m. Professor ASH.

6. Freehand Drawing. The drawing from architectural casts in both charcoal and pencil continues the work begun in the first year, and is intended to fit the student for his subsequent freehand drawing from the antique. *Mon., Sat.*, at 4.50, and at least two additional hours. Mr. MOLBY.

Second Section. For Graduates and Undergraduates.

20. History of Architecture. History of Classical and Early Christian architecture. Illustrated. Two lectures per week. *Tu.*, at 4.50; *Th.*, at 5.40. Professor BIBB.

21. Building Construction. Frame construction and interior finish. *Wed., Fri.*, at 5.40. Professor BIBB.

22. Sanitary Engineering of Buildings. One hour.

23. History of Architecture. History of Renaissance architecture. Illustrated. Two lectures per week, and one additional hour for research. *Mon., Fri.*, at 4.50. Professor ASH.

24. Pen and Ink Rendering. A study of the works of the best draftsmen, with practice in the use of the pen as a means of architectural expression. Two hours.

25. Design and Sketch Design. This course embraces problems in plan, in archæology, and in sketch design. Three problems in archæology, three plan problems, and six sketch problems constitute the course. The student is required to spend at least eighteen hours in the drafting-room each week. Criticism, *Mon., Wed., Fri.*, at 10. Professor ASH.

26. Drawing from the Antique. To be eligible for this course the student must have passed satisfactorily Course 6. He is required to

devote at least six hours per week to working from the antique in the Corcoran Gallery of Art under the criticism of the instructor on that subject. Criticism 9 to 12 daily by Miss MUEDEN. Criticism 7 to 10 daily by Mr. BROOKE.

27. Design and Sketch Design. Thesis. Problems of an advanced character are assigned to the student during the first term. Three advanced problems and three sketch problems are required of the student in addition to his thesis. The three months preceding graduation are devoted to the production of the thesis designs, the subject for the thesis being selected by the student. The student is required to spend twenty-one hours each week in the drafting-rooms. Criticism is given three times a week by Professor ASH.

28. Modeling (Architectural). This course will be arranged and an instructor appointed at an early date.

29. Pen-and-ink Rendering, being a continuation of the work begun in the third year. The work consists largely of the making of pen-and-ink drawings from photographs of architectural subjects. Two hours per week are devoted to this work.

30. Classical Archæology. A study of the life, art, topography, and monuments of Athens and Rome. *Mon.*, and *Th.*, at 4.50. Professor CARROLL. (See section on Archæology.)

31. History of Painting and Sculpture. This course will comprise a series of illustrated lectures on painting and sculpture. The details of the course will be given later.

32. History of Mediæval Architecture. Two lectures and one hour for research per week. Professor BIBB.

33. Building Construction. Masonry, cements, foundations, soils, etc. *Mon.*, at 5.40, *Wed.*, at 4.50. Professor ASH.

34. Water Colors. Beginning by the sketching of simple forms in the studio and followed by excursions into the country for direct sketching from nature. Two hours per week. Professor BIBB.

35. Drawing from Life. To complete this course the student is required to spend at least six hours per week in the Life Class at the Corcoran Gallery of Art. Only students who have satisfactorily passed Course No. 26 are admitted to this class. Men's life; women's life. Criticism by Mr. MESSER.

36. Water Colors. Continuation of Course 34. A course in water-color sketching. Two hours per week. Professor BIBB.

37. A special course in design will be given, consisting of six regular and six sketch problems. This course is intended to prepare students for the Beaux Arts problems. Criticisms, *Mon., Wed., Fri.*, at 7.30.

38. In this course the problems prepared by the New York Society of Beaux Arts Architects will be offered to the students, and the judgments will be made by the jury in New York city under the rules of the society. Criticisms, *Mon., Wed., Fri.*, at 7.30.

39. Summer Work. Each architectural student is required during the summer vacation to make at least twenty-four sketches from nature, or to do an equivalent amount of work, namely, four weeks in an architect's office, or the measured drawings of an existing monument of architecture.

Third Section. Primarily for Graduates.

40. Composition as applied to architecture.

41. Advanced design.

NOTE.—Course 37 and 38 are designed for student draftsmen who wish to supplement their regular office work with special training in design rendering, etc.

The Architectural League of America offers an annual Traveling Scholarship in Architecture, value \$1,200 to students and draftsmen in Architecture under 35 years of age. All architectural students in the University, who are members of the George Washington University Architectural Club are eligible to compete for this prize.

ASTRONOMY.

EDGAR FRISBY, A.M.....Professor
HERBERT LOUIS RICE, M.S.....Professor

Third Section. Primarily for Graduates.

40. The Theory of Computing the Parabolic Orbit of a Comet from Three Observations, with an ephemeris. Encke's Memoir on Olbers' Method, Abhandlungen, Erster Band. Books of reference: Watson's Astronomy, Oppolzer's Bahnbestimmung der Cometen und Planeten. Professor FRISBY.

41. The Theory of Computing an Elliptical Orbit, or any Conic Section, from Three or Four Observations. Gauss' Theoria Motus. Books of Reference, as above. Professor FRISBY.

42. An outline of the Method of Least Squares. Encke, Chauvenet, Brunnow, Watson, Johnson. Professor FRISBY.

44. The Theory of General Perturbations. Tisserand, *Mécanique Céleste*. Books of reference: Laplace, *Mécanique Céleste*; Lagrange, *Mécanique Analytique*, and *Memoirs*; Leverrier, *Annals of the Paris Observatory*; Hansen, *Auseinandersetzung*; Pontécoulant, *Système du Monde*, etc. Professor FRISBY.

45. General Spherical Astronomy. Chauvenet's or Brünnow's *Spherical Astronomy*. Professor FRISBY.

50. On the construction and use of the American Ephemeris and Nautical Almanac. Embracing a complete discussion, both theoretical and practical, of all the important elements and data contained in this fundamental work. A practical course for computers. Professor RICE.

51. Spherical and Mathematical Astronomy. A more general course than the preceding, covering the most important of the subjects discussed in Chauvenet's or Brünnow's works on Spherical and Practical Astronomy, and including such portions of Theoretical Astronomy (such as Watson's) as are not especially concerned with the determination of orbits. Professor RICE.

52. On the Theory and Practice of Interpolation. A special course, including a full discussion of the properties of differences, the various formulæ and methods of interpolation, tabular differentiation, and mechanical quadrature; also other important problems concerned, with the tabular values of functions, for those desiring special acquaintance with this fundamental and important subject. Professor RICE.

53. A reading course in the History of Astronomy. Such works as Grant's *History of Physical Astronomy*, Clerke's *History of Astronomy during the Nineteenth Century*, etc., are used as texts. Professor RICE.

ASTRO-PHYSICS.

FRANK HAGAR BIGELOW, A.M., L.H.D.....*Professor*
FREDERICK E. FOWLE, JR.....*Lecturer*

Third Section. Primarily for Graduates.

40. Solar Physics. The constitution of the sun, the sun-spots, faculæ, prominences, and the coronas; the circulation of the solar mass and the distribution of these phenomena in latitude and longitude, their variations in the 3-year, 11-year, and 35-year periods; the grounds for the theory that the sun is a magnetized body, associated with electric currents and an ionized radiation. Professor BIGELOW.

41. **Cosmical Electricity and Magnetism.** The two fields of force emanating from the sun, their modes of propagation through the ether as electromagnetic and magnetic types of energy, and their relation to the heat and light received by the earth; the laws of radiation and the determination of the solar constant; the variations in the solar spectrum due to changes in the physical states of the sun's and the earth's atmospheres. Authors: Maxwell, Poincaré, J. J. Thomson, Hertz, Heaviside, Webster, with references to the recent literature in scientific journals. Professor BIGELOW.

42. **Terrestrial Magnetism.** The distribution and secular variation of the magnetism of the earth, its periodic and irregular disturbances by solar action; magnetic observatories, instruments, and methods of observing; atmospheric electricity and ionization; terrestrial radioactivity and emanations; auroras, magnetic storms, and their relation to the gases of the atmosphere, with a history of the progress of science in these lines of research; the work of the Mount Weather Meteorological Research Observatory in connection with solar physics. Authors: Gauss, Mascart, Stewart, and Gee; numerous reports of observatories and recent scientific papers. Professor BIGELOW.

43. **Meteorology.** The theories of the general motions of the earth's atmosphere and of the generation of local cyclones and anticyclones, periodic variations in the pressure, temperature and precipitation of the atmosphere due to solar operations; short and long range predictions of the weather for the United States.

The results of the International Cloud Survey of 1896-1897; of the Weather Bureau nephoscope observatories in the West Indies, 1898-1902; a comparative study of the theories of dynamic meteorology; Bigelow's standard system of equations useful in meteorology; the gradients of pressure, temperature, and vapor tension as determined by cloud observations, balloon and kite ascensions; the barometry and thermometry of the United States; eclipse meteorology and allied problems; the new cosmical meteorology; these and related topics are included in this course. Professor BIGELOW.

44. A lecture course on the astro-physical instruments employed in modern research; the siderostat, the coelostat, the bolometer, the spectroheliograph, spectroscopes and telescopes generally, explaining their mechanical parts, the methods of obtaining the instrumental errors, and the formulæ for reducing the observations. To be taken in connection with Courses 40 and 41. Mr. FOWLE.

BACTERIOLOGY AND PATHOLOGY.

JAMES CARROLL, M.D.....	<i>Professor</i>
T. S. D. GRASTY, M.D.....	<i>Instructor</i>
H. H. DONNALLY, M.D.....	<i>Instructor</i>

Second Section. For Undergraduates and Graduates.

Primarily for students of medicine; open also to advanced students in Arts and Sciences.

20. Bacteriology: The preparation of the various culture media; the principles of disinfection and sterilization, and the methods of cultivating, staining, and studying bacteria. Special attention is given to pyrogenic organisms and the bacilli of diphtheria and tuberculosis. First half-year, *Mon., Wed., Fri.*, 1 to 3.

21. Pathology. The student is now prepared to appreciate the association of bacteria with certain definite lesions in the tissues. After the detailed study of inflammation, the diseases of the various organs are taken up in succession. For this purpose sections illustrating the various pathological conditions are carefully selected and given to the student to be stained, mounted, and studied under the immediate supervision of an instructor. These sections thereafter become the property of the student. The course terminates with the microscopical study of the several varieties of tumors. Second half-year, *Mon., Wed., Fri.*, 1 to 3.

Third Section. Primarily for Graduates.

40. Bacteriology. Special studies and practical research work. Professor CARROLL.

BOTANY.

ALBERT MANN, A.M., Ph.D.....	<i>Professor</i>
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First Section. Primarily for Undergraduates.

1. General Botany. The purpose of this course is to afford to students a general but accurate knowledge of Botany as a science. The different plant forms are progressively studied, from the simplest organisms to the most highly specialized and complex (Systematic Botany). The individuals of the series are considered in the following ways: (1) As to their various structures and organs (Morphological Botany); (2) as to the uses and functions of each part (Physiological Botany); (3) as to the individuals as inde-

pendent living organisms (Biological Botany); (4) as to their relations to their places in Nature and the influence of environment (Ecological Botany); (5) as to their relations to other botanical and zoological organisms (Symbiotic Botany); (6) as to their relations to plant forms preceding them geologically (Paleontological Botany). Lectures, *Mon.*, at 1.30. Laboratory work, *Fri.*, 1.30 to 3.30.

2. Applied Botany. This course offers a series of lectures and laboratory investigations bearing on the uses of plants to civilized life. In considering this relationship which gave rise to the science of Botany, a historical excursion is made into the character of the science in former centuries. The main points included in this course are: (1) Plants as the world's food supply, both directly and indirectly; the characteristic plant foods of different zones and countries; the origin of common food plants; the adaptability of various plants to introduction into new areas; the difference in their response to cultivation and selection; the relative nutritive value of different food plants; (2) plants in Medicine; a review of early botanical remedies; a general view of modern *Materia Medica*; the relations of various plants to disease and to health, including the Bacteria; (3) plants in relation to Art, *Æsthetics*, and Architecture; the strong influence of plant forms in these fields; plants used as perfumes, condiments, dyes, etc.; (4) plants in relation to the mechanical arts; woods, textile fibers, etc. Lectures, *Tu.*, at 4.50. Laboratory work, *Th.*, 4.50 to 6.30.

Second Section. For Undergraduates and Graduates.

20. Comparative Biology. This course consists of lectures and class-room demonstrations treating of the different functions and phenomena of life as they are exhibited in both animals and plants. The lectures occur once a week, and are given by the Professor of Zoology and the Professor of Botany alternately. They discuss the strictly biological processes in Nature—that is, those classed as vital processes—and show their relations and contrasts as viewed from the two standpoints indicated. The series is based on the general classifications of the two sciences, beginning with the lowest forms. The alternate lectures are in this way coordinated; but aside from this mutual plan of procedure, each lecturer treats the subject independently. Wednesday afternoons, one hour; time to be determined. Professors BARTSCH and MANN.

Third Section. Primarily for Graduates.

40. Geographical Botany. Floral areas and their conditions—temperature, moisture, soil, light, mechanical energy, altitude, civil-

ization. Methods of plant distribution. Barriers against distribution. Elasticity and non-elasticity in plants. Places of origin of familiar plant forms. Cosmopolitan and local plants.

41. Morphological Botany. Comparative anatomy and histology of plants, especially of phanerogams. General Organography in plants. Metamorphosis of organs. Monstrosities and pathological structures. Evolutionary Organography.

42. Economical Botany. Advanced study and original research along the lines of the subjects of Applied Botany given in the regular college course. One or more themes belonging to this phase of the science will be assigned to each student, as food, textile, architectural products of the plant world, their characteristics, their source, etc.; Materia medica; plants of beneficial or detrimental sanitary importance, etc., etc.

CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....	Professor
FRANK WIGGLESWORTH CLARKE, Sc.D....	Professor of Mineral Chemistry
HARVEY W. WILEY, Ph.D., M.D....	Professor of Agricultural Chemistry
EDWARD G. SEIBERT, M.D.....	Assistant Professor
N. MONROE HOPKINS, Ph.D.....	Assistant Professor
EDWIN A. HILL, Ph.D.....	Assistant Professor
THOMAS M. PRICE, Ph.D.....	Assistant Professor
OTIS D. SWETT, B.S.....	Instructor
ELMER S. NEWTON, B.A., M.D.....	Instructor
ARTHUR N. TASKER, B.A.....	Assistant
ERNEST W. BROWN, Ph.D.....	Assistant
RAYMOND OUTWATER, M.S.....	Assistant in Assaying
WILLIAM E. HILLYER, M.S.....	Assistant
EDWIN SMITH, JR.....	Assistant

First Section. Primarily for Undergraduates.

1. General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu., Th., Sat.*, at 4.50. Professor MUNROE, Mr. SWETT.

2. Laboratory Practice. A laboratory course for the study of the principles of chemistry and the methods of conducting chemical experiments. Two three-hour periods. *Tu., Th.*, at 1.30. Professor MUNROE, Asst. Professor HOPKINS, Dr. HILL, Mr. SMITH, Mr. HILLYER.

3. Preparation and Study of the Properties of Chemical Substances. A laboratory course. Two three-hour periods. *Tu., Th.*, at 1.30. Professor MUNROE, Dr. PRICE, Mr. SMITH, Mr. HILLYER.

4. Assaying and Metallurgy of the Precious Metals, carried on by the methods used by the Government assayers, the laboratory being fitted up on the plan of that of the United States Mint. Twelve hours, for three months. Professor MUNROE, Mr. OUTWATER.

5. Lectures on the Principles of Analysis. One hour. Professor MUNROE.

6. Metallurgy of Iron and Steel. A course of lectures and readings. *Tu.*, at 5.40. Professor MUNROE.

7. Qualitative Analysis. A brief course intended primarily for students in engineering. Two three-hour periods. Professor MUNROE, Dr. PRICE, Mr. SMITH.

Second Section. For Undergraduates and Graduates.

20. Qualitative Analysis. A laboratory course in the study of the properties and reactions of chemical substances, and of the means employed for their detection and identification. Three three-hour periods. Professor MUNROE, Dr. PRICE, Mr. SMITH.

21. Quantitative Analysis. A laboratory course in the quantitative estimation of the constituents of a specially selected and typical set of chemical substances, which are particularly adapted for teaching the student the aims and methods of quantitative chemical analysis and for imparting facility in manipulation. Four three-hour periods. Professor MUNROE, Dr. PRICE.

22. Technical Analysis and Industrial Processes. A lecture and laboratory course in which the elements of chemical engineering are taught, and special attention is given to rapid commercial methods of analysis. Four three-hour periods. Professor MUNROE.

23. Advanced course in Organic Chemistry. *Wed., Fri.*, at 4.50. Professor MUNROE, Mr. SWETT.

24. Advanced course in Organic Chemistry. A continuation of Course 23. *Th., Sat.*, at 5.40. Professor MUNROE, Mr. SWETT.

25. Chemistry of the Carbon Compounds. A laboratory course in the preparation and study of the properties of a characteristic series of organic compounds. Four three-hour periods. Professor MUNROE, Dr. PRICE, Mr. SWETT.

26. Physical Chemistry. A lecture course designed to be an introduction to physical chemistry, and to treat of the modern theories of chemistry from the physical standpoint. In this course special attention is given to the subject of electro-chemistry. *Mon., Wed., at 5.40.* Asst. Professor HOPKINS.

27. Stereo-chemistry. This course deals with the arrangements of atoms in space from a theoretical standpoint, while the student is taught how to form models by which to illustrate their arrangements. Two hours. Asst. Professor HILL.

28. Biochemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Three three-hour periods. Asst. Professor PRICE.

29. Organic Chemistry. Especially designed for students in medicine and dentistry. Two hours for one term. Professor MUNROE.

30. Physiological Chemistry. A series of lectures and recitations on the proximate principles of the human body. Two hours for one term. Assistant Professor SEIBERT.

31. Clinical Analysis. A laboratory course to accompany 30. Professor MUNROE, Assistant Professor SEIBERT, Mr. TASKER, and Dr. BROWN.

34. Volumetric Analysis. Especially designed for students in medicine. Professor MUNROE and Dr. NEWTON.

Third Section. Primarily for Graduates.

40. Explosive Substances. Professor MUNROE.

41. Analytical Methods. Professor MUNROE.

42. The Phenomena of Deliquescence and Efflorescence. Professor MUNROE.

43. Development of the Theory of the Constitution of the Natural Silicates. Professor CLARKE.

44. The Redetermination of Atomic Weights. Professor CLARKE.

45. Special Researches in Agricultural Chemistry. Professor WILEY.

46. Special Researches in Electro-chemistry. Assistant Professor HOPKINS.

Students in Chemistry are invited to attend the meetings of the Chemical Society of Washington. These meetings are held on the second Thursday of each month from October to May, in the Assembly Hall of the Cosmos Club, at 8 p. m.

CIVIL ENGINEERING.

HENRY A. PRESSEY, Ph.D.....	Professor
EDWIN V. DUNSTAN, B.S.....	Instructor
ARTHUR B. ILSLEY, B.S.....	Instructor

First Section. Primarily for Undergraduates.

1. Surveying and Mapping. This course includes the theory and use of instruments; land, topographic, hydrographic, mining, city, and geodetic surveying; measurement of volumes; projection of maps, etc. Text-book, Johnson's Surveying. *Tu., Th.*, at 2.30. Field work, not less than 60 hours during the session, usually on Saturday morning.

2. Railroad Engineering. Railroad curves and earthwork; location of about two miles of railroad, including reconnaissance, preliminary and final locations, construction of contour maps and profiles, computation of earthwork, design of culverts, etc.; laying out curves; track work, etc. *Tu., Th.*, at 4.50. Field work not less than 60 hours during the session.

3. Highways and Pavements. Location of highways; construction, improvement and maintenance of roads and pavements; curbs, gutters, sidewalks; specifications and contracts; reports, estimates, etc. *Tu., Th.*, at 9.30, one term. Field work and drawing, three hours per week for one term, *Tu.*, 10.30 to 12.30, and an additional hour to be assigned

4. Materials of Construction. A study of the properties of stone, brick, cement, concrete, wood, iron, steel, etc., including the inspection of and specification writing for these materials; also the elements of building construction, brick and stone work, carpentry, roofing, etc. First term, *Wed., Fri.*, at 5.40; second term, *Wed.*, at 5.40; and three hours in drawing-room and laboratory to assigned.

5. Water-Works. Study of the design, construction and maintenance of water-works systems, with especial attention to purification of water; quantity and quality; rainfall, run-off and evaporation; impurities, bacteria, organic matter; chemical and bacterial examinations; ground water, springs, wells, infiltration galleries; reservoirs and standpipes; distributing systems; fire protection; hydrants; pumps; filters and filtration; construction; specifications, contracts, estimates. Second term, *Mon.*, at 10.30; *Wed.*, at 10; *Fri.*, at 10.30; design, *Tu.*, 10.30 to 12.30.

6. Sewerage. A study of the design, construction, and maintenance of sewerage systems, with special reference to sewage disposal; combined and separate systems; amount of sewage, rainfall, and run-off; flow in sewers; flushing and ventilation; location and grades; specifications, contracts and estimates; practical sewer construction. First term, *Tu., Th.*, at 1.30; design, *Th.*, 10.30 to 12.30.

7. Engineering Testing. Tests upon engineering materials, iron, wood, masonry, etc.; Stresses of framed trusses.

There are six laboratory exercises of two hours each in connection with the course in theoretical hydraulics.

Tests are made of pumps, water-wheels, etc., and measurements of the flow of water by means of weirs, meters, nozzles, and orifices. Three hours a week for one term.

Second Section. For Undergraduates and Graduates.

20. Masonry Construction. Engineering materials; cement; brick; stone, etc. Tests and specifications; foundations; pile driving; bridge piers and abutments; masonry dams and retaining walls; arches and culverts; designs and estimates. *Mon., Fri.*, at 5.40; design, *Fri.*, 10.30 to 12.30.

21. Hydraulic Engineering. The design and construction of water-power plants and irrigation works. Flow of rivers; rainfall; run-off; methods of development; backwater; dams; canals; head-works; gates; water-wheels; power-house; power transmission. Irrigation plans; distributing systems; duty of water; water-rights and irrigation law. *Tu., Wed., Th.*, at 1.30; design, *Th.*, 10.30 to 12.30, for one term.

22. Framed Structures. Principles and practice of design. Laws of equilibrium; loads; reactions, shears, and moments in beams; computation of stresses; plate girders; roof trusses; highway and railroad bridges; working plans; details of construction; shop practice; specifications and contracts; bills of material. Designs are made for a roof truss and three bridges. *Tu., Th., Sat.*, at 5.40; design, four hours per week.

Third Section. Primarily for Graduates.

40. Water Supply. Details of water-works. Study of surface and underground waters as sources of supply, with special reference to methods of purification. Professor PRESSEY.

41. Sewerage. Details of sewerage systems, with special reference to methods of sewage disposal. Professor PRESSEY.

42. Hydrology. Flow of rivers, rainfall, and the effects of topography, forests, etc., upon the run-off of watersheds. Professor PRESSEY.

43. Irrigation. Professor PRESSEY.

44. Advanced course in the graphic statics of building construction.

45. The theory of suspension, continuous, cantilever, and braced arched bridges, with a more complete course in the design of plate girders, riveted and pin-connected bridges, with working drawings and estimates.

46. Advanced course in construction. The theory and designing of retaining walls, masonry arches, and dams.

47. Thesis, the subject of which is to be selected by the student and approved by the Professor of Civil Engineering.

CLASSICAL LANGUAGES AND LITERATURES.

MITCHELL CARROLL, M.A., Ph.D.....	Professor
CHARLES SIDNEY SMITH, A.M.....	Assistant Professor
ASHTON WAUGH MACWHORTER, Ph.D.....	Instructor
PAUL NOBLE PECK, A.B.....	Instructor

GREEK.

First Section. Primarily for Undergraduates.

1. Lysias (selected orations); Herodotus (selections); Euripides (Alcestis, Medea); Greek prose composition. *Mon., Wed., Fri.*, at 2.30. Asst. Professor SMITH. (Dr. MACWHORTER, 1905-06.)

2. Thucydides (Book VII); Sophocles (Antigone); Xenophon (Memorabilia). *Mon.*, at 11.30; *Wed.*, at 11; *Fri.*, at 11.30. Professor CARROLL and Dr. MACWHORTER.

3. Elementary Course. For students who have not taken Greek before matriculating. It aims to cover as much as possible of the entrance requirements in Greek. With private study during the summer the student may be able to take up Course 1 at the beginning of the following year with condition on Homer. Three hours. Mr. PECK.

Second Section. For Undergraduates and Graduates.

20. Plato (selections); Aristophanes (Clouds); Aeschylus (Seven against Thebes, Prometheus). *Tu., Th.*, at 9.30. Given in 1906-07. Professor CARROLL.

21. Greek Literary Criticism: Aristotle (Art of Poetry); Aristophanes (Frogs); Greek Lyric Poetry (selections); Conferences on History of Greek Literature. *Tu., Th.*, at 9.30. Not given in 1906-07. Given in 1907-08.

22. Greek Prose Composition (advanced course): Practical exercises in syntax and translation. *Th.*, at 11.30. Dr. MACWHORTER.

23. Homer: Rapid reading of the Odyssey. One hour. *Fri.*, at 4.50. Asst. Professor SMITH.

LATIN.

First Section. Primarily for Undergraduates.

1. Livy (Books I, XXI); Cicero (De Senectute); Horace (Odes and Epodes); Latin prose composition. *Mon., Wed., Fri.*, at 1.30. Asst. Professor SMITH (Dr. MACWHORTER, 1905-06).

2. Cicero and Pliny (selected letters); Satires and Epistles of Horace; Ovid (selections); Martial (selections). *Mon., Wed., Fri.*, at 3.30. Professor CARROLL and Asst. Professor SMITH (Dr. MACWHORTER, 1905-06).

Second Section. For Undergraduates and Graduates.

20. Tacitus (selections); Vergil (Bucolics); Lucretius, *Tu., Th.*, at 10.30. Professor CARROLL.

21. Roman Literary Criticism: Quintilian (Book X) and Horace (Ars Poetica); Catullus, Tibullus, and Propertius; Conferences on History of Roman Literature. *Tu., Th.*, at 10.30. Not given in 1906-07. Given in 1907-08.

22. Latin Composition and Reading at Sight: Practice in Latin expression and style. *Tu.*, at 1.30. Asst. Professor SMITH.

23. Plautus and Terence. *Th.*, at 1.30. Asst. Professor SMITH.

NOTE.—Students in Greek and Latin are recommended to take as electives the following courses in Classical Archæology:

20. Topography and Monuments of (a) Athens and (b) Rome. *Mon., Th.*, at 4.50. Professor CARROLL.

21. Private and Public Life of the Greeks and Romans. Given in 1905-06. *Mon., Th.*, at 4.50.

22. Greek and Roman Architecture and Sculpture. Not given in 1906-07. Given in 1907-08.

Third Section. Primarily for Graduates.

THE SEMINARY OF CLASSICAL PHILOLOGY.

Professor CARROLL*Director*

The design of the Seminary of Classical Philology is to afford discipline in the methods of philological criticism and research with especial reference to the interpretation of classical authors. It is composed of all graduate students in Classical Languages, and is under the supervision of the Director, who is assisted by the other instructors of the department in certain features of the work. Each year two authors in related branches of Greek and Latin literature are made the centre of study. Interpretations of the texts under consideration are prepared by the members, and papers are read by them containing the results of special study of philological or literary topics. Wide and systematic reading in the authors selected is carried on under personal supervision, and special lectures are given on the departments of literature involved. The authors selected for criticism and interpretation are as follows:

1904-05. Greek, 41, Thucydides; Latin, 41, Tacitus.

1905-06. Greek, 42, Homer; Latin, 42, Vergil.

1906-07. Greek, 43, Attic Orators; Latin, 43, Cicero.

1907-08. Greek, 40, Aristophanes; Latin, 40, Plautus.

Regular meetings of the Seminary are held on *Tu., Wed.*, at 4.50.

SCHOOL OF CLASSICAL STUDIES AT ATHENS.—The University, through friends, is a contributor to the support of the American School of Classical Studies at Athens, and graduates of this University are entitled to all its advantages without expense for tuition.

THE CLASSICAL CLUB.

The Classical Club, which is composed of instructors and advanced students in Greek and Latin and Classical Archæology, meets monthly for the more detailed discussion of special topics in ancient life, literature, and art than is ordinarily possible in the class-room. At each meeting a paper is read, reviews of recent classical publications are presented, and reports are made from various sites of archæological excavation. Teachers and patrons of the classics in Washington are admitted as associate members, and at open meetings the club avails itself, when possible, of the services of eminent scholars from other universities who may be temporarily in the city.

Students in classical languages and members of the Classical Club are invited to attend the public lectures of the Washington Society of the Archæological Institute of America, which are held usually in University Hall.

ECONOMICS AND SOCIOLOGY.

C. WILLIAM A. VEDITZ, Ph.D., LL.B.....	<i>Professor of Economics</i>
HENRY PARKER WILLIS, Ph.D.....	<i>Professor of Finance</i>
OSCAR P. AUSTIN	<i>Professor of Commercial Geography</i>
CARROLL D. WRIGHT, LL.D.....	<i>Lecturer</i>

ECONOMICS.

First Section. Primarily for Undergraduates.

1. Elementary Economics. Introduction to the study of political economy, beginning with a brief sketch of the rise and development of the science and an outline of the industrial evolution of the United States. The principal topics under discussion are the nature and scope of economics, the present-day schools of economic doctrine, the problems of methodology, the nature of human wants, economic laws, the concept of value, the determination of prices, the factors and methods of production, the exchange of products. Although this is essentially a course in economic theory, the student is led to observe the phenomena of every-day industrial life; and visits are made by the class to factories and other industrial establishments in the vicinity of Washington. Text-book, Gide's "Principles of Political Economy," adapted by Veditz. The text-book is supplemented by lectures, assigned reading from the classical economists and typical modern authorities, class-room discussions, and reports on assigned topics by members of the class. First half-year, *Mon., Wed., and Fri.*, at 3.30. Professor VEDITZ.

2. The Economics of Distribution and Consumption. A continuation of Course 1, employing the same methods of instruction. This course, however, places emphasis upon the problems that center about the division of the social product,—the problems of rent, interest, wages and profit. It includes also an examination, historical, descriptive and analytical, of Competition, Private Property, and *Laissez faire*, from the standpoint of public welfare; and some study of those quasi-ethical problems that belong partly to the field of economics,—Luxury, Saving, Spending, and Speculation. Second half-year, *Mon., Wed., and Fri.*, at 3.30. Professor VEDITZ.

3. Money and Banking. During the first half-year this course is devoted to a discussion of the history and theory of money. Some of the chief topics covered are the monetary history of the United States, the conditions of production of the precious metals, the theory of prices and mode of measuring price fluctuations, bi-metallism, token money, and the relation of the Treasury system of the United States to our money supply. Special attention is given to international exchange and the movement of the precious metals between countries. General reference is made to foreign monetary systems, but the course deals primarily, on its practical side, with monetary conditions in the United States. In the second half-year the course deals with the theory of credit and banking. Particular attention is paid to the national-bank act and its relation to the financial system of the United States. The principal banking systems of foreign countries are compared with our own, and the probable lines of change to be followed in the immediate future are indicated. During the latter part of the course a review of banking practice is undertaken. *Wed., Sat.*, at 5.40. Professor WILLIS.

Second Section. For Undergraduates and Graduates.

20. Industrial Evolution. This course is designed to furnish a general survey of the development of society from an economic point of view, and more particularly to discover the forces which have given rise to modern capitalism and large-scale methods of production. It is at the same time a systematic attempt at the economic interpretation of history. While the principal emphasis is placed upon facts and the necessity for critical methods in the employment of those facts, some time is nevertheless devoted to an examination of the more familiar generalizations which have been made regarding economic evolution,—such as those of Hildebrand, Buecher and Karl Marx. First half-year, *Mon., Wed.*, at 4.50. Professor VEDITZ.

21. Socialism and Social Reform. The course begins with a history of communistic schemes, particularly so-called "Utopian" socialism as advocated by Plato, Thomas More, Saint Simon, Fourier, and Owen. This is followed by an examination of modern collectivism as presented by Rodbertus, Karl Marx, Lassalle and Bernstein. The course concludes with an examination of the single-tax doctrine of Henry George, of schemes of profit-sharing between employer and employees, and of co-operation. Second half-year, *Mon., Wed.*, at 4.50. Professor VEDITZ. (In alternate years; not given in 1906-07).

22. Public Finance. The foundation of this course is a study of the modern budget with special reference to the United States. This is followed by an analysis of the theory of taxation, its shifting and incidence. The principles worked out in these earlier portions of the inquiry are applied to the internal revenue and tariff systems of the United States. Part of the course deals with methods of state finance as observed in the commonwealths of the United States.

The second half-year is spent chiefly in the study of municipal accounting, with special reference to public-service corporations. Introductory to this main topic, the chief theoretical and practical considerations affecting state industrial operation and control are indicated. In general, however, the course is devoted to analyses of actual experience rather than to the vaguer questions of state or municipal ownership. *Tu., Fri.*, at 5.40, in alternate years; not given in 1906-07. Professor WILLIS.

23. Theory and Practice of Statistics. During the first half-year this course presents the elementary principles of statistics, illustrating their application by concrete examples. The graphic method, the use of averages, index numbers, and the special application of statistics to insurance is thoroughly discussed. About one-third of the time is spent in laboratory work designed to give practice in the application of the methods theoretically presented.

During the second half-year the course is devoted to a general survey of economic and social statistics. This includes a review of government statistical methods and publications in the United States and the principal foreign countries.

Two hours. Alternating with Course 22. Given in 1906-07. Professor WILLIS.

24. Corporation Finance. By way of introduction to this subject, a descriptive study of the various kinds of corporation securities is entered upon. From this descriptive outline the discussion leads to methods of organizing and financing modern industrial enterprises. The method of study is, in part, that of analysis of specific well-known examples of corporate organization. There is also given a brief outline, in the first half-year, of the principles of corporation accounting.

A study of Investment and Speculation occupies the second half-year of the course. This implies a study of stock-exchange speculation, including the organization of our stock exchanges and the financial institutions connected with them. The economic distinction between the idea of investment and that of speculation and the conclusions to which this distinction leads are made clear. Methods of dealing in the chief staple products of the country, the organi-

zation of the industries in which these staples are produced and handled, and the way in which such industries and their products are affected by speculative and investment operations are also considered.

Mon., Th., at 5.40, in alternate years; not given in 1906-07. Professor WILLIS.

25. Accounting. The first half-year's work in Accounting includes a survey of the general principles of the subject and an examination of the more important forms of commercial paper and business methods. A text-book on accounting and hand-books of business forms are used as guides. In the second half-year the accounts of representative kinds of businesses are studied, and the methods of accounting and auditing applicable thereto are developed. This portion of the work consists partly of lectures and partly of special investigations by members of the class along lines illustrative of the oral discussion in the class-room.

Two hours. Alternating with Course 24. Given in 1906-07. Professor WILLIS.

26. International Trade. This course begins with an outline history of European commerce, including the commercial policies of the principal nations. This is followed by a more detailed history of American commerce with particular attention to the commercial treaties between the United States and foreign countries. The course also includes an examination of the organization of the ocean carrying trade and the leading continental trade routes, and terminates with a comparative study of modern commercial policies with particular emphasis upon the expansion of American trade in foreign markets.

First half-year. *Tu., Th.*, at 5.40. Professor VEDITZ.

27. Labor Legislation. The purpose of this course is to afford a general view of the relations of the government, both in this country and abroad, to labor interests and to the labor problems that grow out of modern productive methods. It includes a sketch of the rise of these problems and an examination of such subjects as: child labor; dangerous occupations; immigration as it affects labor; workingmen's insurance against sickness, old age, accidents, and loss of work; labor organizations; strikes and industrial conflicts; conciliation and arbitration; collective bargaining. If time permits, a brief history of the labor movement in the United States is undertaken. In alternate years; given in 1906-07. Second half-year; *Mon., Wed.*, at 4.50. Professor VEDITZ.

28. Commercial Geography. Primarily for students in the Department of Politics and Diplomacy; open to advanced students in Arts and Sciences. Two hours. Professor AUSTIN.

SOCIOLOGY.

Second Section. For Undergraduates and Graduates.

20. The Science of Society. A general course in theoretical sociology. The scope of sociology; its relation to the individual social sciences; the organic concept of society; the contract theory and its variants; the fundamental factors of social evolution; the biological, economic, and psychological schools of sociologists; race, environment, and heredity; forms of society; social institutions in their origin and development; social progress. *Tu., Th.*, first half-year, at 4.50. Professor VEDITZ.

21. American Social Problems. A course in practical sociology designed to acquaint the student with the great present-day problems of social life in this country—the treatment of defectives, dependents and delinquents. The principal problems under discussion are immigration, pauperism, unemployment, charity organization and poor relief, slums, intemperance, and criminality.

This course is not technical, but intended as a preparation for intelligent citizenship. Students are encouraged to undertake sociological field-work and to study the charitable and correctional institutions and practices of the District of Columbia. Class visits are made to institutions of this character, and from time to time specialists in social reform work are invited to lecture to the class. *Tu., Th.*, second half-year, at 4.50. Professor VEDITZ.

22. Statistics and Social Economics. Professor WRIGHT.

Third Section. Primarily for Graduates.

40. Criminology and Penology. An advanced course in social philosophy for the consideration of the following subjects: The concept of crime; the necessity of legal compulsion; evolution of the idea of crime; the *lex talionis*; the nature and purposes of punishment; social defense; the individualization of punishment; capital punishment; duels and ordeals; reformation; the indeterminate sentence; the French *loi Bérenger*; juvenile courts; prison systems; etc. Professor VEDITZ.

41. Seminary in Economics and Sociology. A limited number of students competent to undertake the work are organized into a Seminary for the scientific investigation of important problems in Economics and Sociology. Two hours. Professors VEDITZ and WILLIS.

ELECTRICAL ENGINEERING.

FRANK A. WOLFF, Ph.D.....	<i>Professor</i>
PHILANDER BETTS, M.S., E.E.....	<i>Assistant Professor</i>
.....	<i>Instructor</i>

First Section. Primarily for Undergraduates.

1. Elementary Mathematical Theory of Electricity and Magnetism, with special attention to the needs of engineering students. Text-book: Glazebrook's "Electricity and Magnetism," supplemented by problems. *Tu., Th., Sat.*, at 4.50, for three months.

2. Direct-current motors and generators. Covers the laws of the magnetic circuit as applied to the dynamo. Students are required to design a direct-current machine. Text-books: Hawkins and Wallis's "The Dynamo." *Tu., Th., Sat.*, at 4.50, beginning January 1st.

3. Elements of Electrical Engineering. Text-book: Tyson Sewell's "Elements of Electrical Engineering." *Tu., Th.*, at 11.30.

4. Electrical Measurements. A laboratory course for Juniors. Selected experiments. Foster's hand-book and special laboratory notes are used for reference. Six hours a week, first term. *Tu., Th.*, 1.30 to 4.30.

5. Electrical Laboratory. Experiments and tests involving the operation of direct-current dynamos and motors, including tests of motors in service, operating elevators, street cars, and machinery of various kinds. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering." Six hours a week, second term. *Tu., Th.*, 1.30 to 4.30.

6. Industrial Electricity. A practical course intended for Juniors in Civil Engineering, embracing the selection and operation of electrical machinery, electric railways and other applications of electric motors. One hour a week.

7. Electrical Engineering. A course in theoretical and applied electricity intended for Seniors in Mechanical Engineering. It embraces the selection and operation of electrical machinery, the location, construction and operation of power plants, electric railways and transmission lines, the use of electric motors for driving machinery, and the working of storage batteries, elevators, hoists and cranes. Three hours a week.

Second Section. For Undergraduates and Graduates.

21. Alternating Current Theory and Machinery. A course for Seniors in Electrical Engineering, covering the principles of single as well as polyphase currents, including study of machines, circuits, transformers, etc. Text-books: Jackson's "Alternating Currents" and Oudin's "Polyphase Apparatus and Systems." *Mon., Tu., Th., Sat.*, at 4.50.

22. Electrical Distribution. A course for Seniors in Electrical Engineering covering the whole field of distribution of electricity for light and power. Text-book: Crocker's "Electric Lighting;" Second volume, "Distribution Systems." *Tu., Th.*, at 5.40.

23. Electrical Applications. A course for Seniors in Electrical Engineering, covering the more important applications of electricity, such as illumination, motive power, signalling, telephony, electrochemistry, etc. *Mon., Wed.*, at 1.30.

24. Advanced Laboratory Work for Seniors in the Electrical Engineering Course. Covers test and experimental work with direct and alternating currents, tests of machines, circuits, transformers, circuits containing inductance and capacity, measurement of power in alternating current circuits, plotting of curves, etc. Text-book: Sever and Townsend's "Laboratory and Factory Tests in Electrical Engineering," with Foster's Electrical Engineer's Hand Book for general reference. *Tu., Th.*, 1.30 to 4.30.

25. Inspection of Plants and Industrial Works. In the vicinity of Washington and Baltimore are a number of modern electric lighting and street railway plants, telephone exchanges, telegraph operating rooms, Government laboratories devoted to special work, etc., which afford students of Electrical Engineering an opportunity to familiarize themselves with nearly all types of apparatus in use. The visits are followed by class discussion based on written descriptions submitted by the students.

Juniors and Seniors in Electrical Engineering are required to attend the monthly meetings of the Washington Branch of the American Institute of Electrical Engineers held at the University.

The students have an "Electrical Club" which holds technical meetings every two weeks, at which subjects of special interest are discussed.

Third Section. Primarily for Graduates.

41. Technical Applications of Electricity. A course of special lectures on the most recent and most important applications of electricity to industrial and scientific use. Two hours.

42. Design of Direct and Alternating Current Machinery. Two hours.

43. Advanced Course in the Mathematical Theory of Alternating Currents. Three hours, first term.

44. Advanced Course in Polyphase Currents. Three hours, second term.

45. Advanced Laboratory Work, Alternating (including Poly-phase) Current Apparatus. Six hours per week.

ENGLISH.

WILLIAM ALLEN WILBUR, A.M.....*Professor*
DE WITT C. CROISSANT, A.B.....*Instructor*

First Section. Primarily for Undergraduates.

1. Rhetoric. A study of the principles of self-expression in writing and speaking presented in three phases, expository in the science of rhetoric, analytical in English literature, and constructive in composition. *Tu., Th., Sat.*, at 10.30. Professor WILBUR, Mr. CROISSANT.

2. Rhetoric. Parallel with Course 1. *Mon., Wed., Fri.*, at 4.50. Professor WILBUR, Mr. CROISSANT.

3. Prose. The development of prose from Sir John Mandeville to Robert Louis Stevenson. About twenty representative prose works are studied in chronological order. The aim of the course is to study critically the development of prose in regard to its form. The course is open to students who have passed in 1 or 2. *Mon.*, at 10.30; *Wed.*, at 10; *Fri.*, at 10.30. Mr. CROISSANT.

5. American Literature. Lectures on the development of the literature. Students taking this course are required to do wide reading, which is discussed by the class. *Mon., Fri.*, at 5.40. Mr. CROISSANT.

Second Section. For Undergraduates and Graduates.

20. Composition. An advanced course. Theme writing, paragraph making, and studies in criticism. Wendell's English Composition is used as a hand-book. The course is open to students who have passed in Course 1 or 2. *Tu.*, at 1.30. Professor WILBUR.

21. Old English. A beginners' course; the essentials of the grammar and readings from Old English texts. Bright's Reader. *Tu., Th.*, at 2.30. Mr. CROISSANT.

22. Shakespeare. The Comedies. Given in 1906-07. *Tu., Th.*, at 4.50. Professor WILBUR.

23. Shakespeare. Tragedies and Romances. Given in 1905-06. *Mon., Wed., Fri.*, at 1.30. Professor WILBUR.

Courses 22 and 23 are given in alternate years. The Temple edition of Shakespeare is recommended.

27. The English Novel. Development of the Novel, with critical studies of selected works, including some contemporary fiction. In 1905-06, *Mon., Fri.*, at 5.40. In 1906-07, *Mon., Wed., Fri.*, at 1.30. Professor WILBUR.

30. Middle English. In the first term particular attention is given the grammar; in the second term more attention is given the literature, with wider reading and special reports. Emerson, A Middle English Reader. *Tu., Th.*, at 1.30. Mr. CROISSANT.

34. History of English Literature to 1700.

35. History of English Literature since 1700. Not given in 1906-07.

Courses 34 and 35 are given in alternate years, and together form a complete history of English Literature. Lectures are given on the development of the literature, and the class is required to read as widely in the literature itself as the time allows. *Tu., Th.*, at 4.50. Mr. CROISSANT.

Third Section. Primarily for Graduates.

40. History of the English Language. This course aims not merely to present the chronological development of the language since the beginning of the Old English period, but principally to serve as an introduction to the comparative grammar of the Germanic group of languages as they are related to English. References are made to Brugmann, Paul, Dieter, and others. A reading knowledge of German is prerequisite. The course is open to those who have passed in Old and Middle English. Mr. CROISSANT.

44. Seminary in English Literature. Subject in 1905-06: The American Short Story. Subject in 1906-07: British Poetry of the Nineteenth Century. Two hours. Professor WILBUR.

52. The Arthurian Legends: Their expression, development, and significance in English literature.

53. English Romanticism, with particular reference to the beginnings of the romantic movement in the eighteenth century.

55. Religious Philosophy in the Poetry of Tennyson.

Other courses may be arranged for competent graduates.

GEOLOGY AND MINERALOGY.

GEORGE P. MERRILL, Ph.D.....	Professor
TIMOTHY W. STANTON, Ph.D.....	Assistant Professor
R. S. BASSLER, Ph.D.....	Assistant Professor

First Section. Primarily for Undergraduates.

1. Mineralogy. Crystallographic, descriptive, and determinative mineralogy. This course is designed with especial reference to minerals as rock constituents or segregated as ore deposits. It includes, therefore, a discussion of not merely the crystallographic and theoretical, but the practical side of the subjects as well. Whenever possible, it should be considered as introductory to the courses in either systematic or economic geology. *Tu., Th.*, at 5.40.

2. Geology. Systematic geology; dynamical, structural, and stratigraphical. The course is designed to form a part of a general-culture course, or a preliminary course for those intending to make a specialty of geology. It includes lectures, recitations, laboratory and field work so far as hours will permit. Paleontology is treated as a branch of geology, having especial reference to stratigraphy and correlation. Text-books: Scott's Introduction to Geology; Merrill's Rocks, Rock Weathering and Soils. *Mon., Fri.*, at 5.40.

Second Section. For Undergraduates and Graduates.

20. Economic Geology. The course consists largely of lectures upon the subjects comprised under: (1) Mineral veins and metal-liferous deposits, their mode of occurrence, origin, and classification; (2) the ores of iron, copper, lead, zinc, tin, silver, gold, mercury, antimony, etc.; and (3) the non-metallic minerals, as the coals and hydrocarbon compounds; salts and materials used in chemical manufactures; abrasive, refractory, and fictile materials, pigments, gems, ornamental stones, building stones, limes, cements, and mineral waters. Text-books: Kemp's Ore Deposits of the United States; Merrill's Stones for Building and Decoration, and the Non-metallic Minerals. *Mon., Fri.*, at 4.50.

21. Paleontology. A course in lecture and laboratory work on the biological and geological relations of the more important types of animals and plants, with especial reference to their value in stratigraphic geology. Two hours.

Third Section. Primarily for Graduates.

Advanced study in Geology, both systematic and applied, is arranged to cover two years.

40. Advanced Geology and Paleontology. The student in this first-year course may devote his time largely, if necessary, to perfecting himself in methods; to general work in the laboratory and in the field; to the examination of geological materials, and to familiarizing himself with the literature of the subject. The utility of the various text-books is recognized, but a very large portion of the desired knowledge on any subject must be gained from special memoirs and from the current literature as it appears in numerous periodicals. The various sources of information, the most essential lines of work, as well as the most promising fields of investigation, are from time to time indicated by the instructor.

41. The student is expected to devote himself to some special investigation which shall serve as the subject of his thesis. The course is modified to suit individual cases, in order that the student may be restricted as little as possible in the exercise of personal taste, originality, and capacity for work.

42. Advanced Paleontology and Stratigraphic Geology. A continuation of Course 21. Besides the study of palæontological methods, the student is expected to pursue some special line of investigation in order to fit himself for original research.

GERMANIC LANGUAGES AND LITERATURES.

HERMANN SCHOENFELD, Ph.D., LL.D.....*Professor*
A. F. W. SCHMIDT, A.M.....*Instructor*
OTTO LOUIS VEERHOFF, A.B.....*Assistant*

First Section. Primarily for Undergraduates.

1. A preliminary course in grammar, narrative prose, the elements of historical reading, and select poems of the principal modern poets. Special stress is laid on exercises in composition. One classic (Schiller) is studied. The work done is equivalent to a two years' course in high schools or academies of good standing. Open to students who have not presented German for admission. *Tu., Th., Sat., 11.30.* Professor SCHOENFELD and Mr. VEERHOFF.

2. Identical with Course 1, with the addition of material tending to train students in the sciences. *Tu., Th., Sat., at 4.50.* Professor SCHOENFELD and Mr. SCHMIDT.

3. The deeper aspects of grammar; accurate training in phonetics and translation into German; conversation; readings from the best German prosaists and poets; selected texts from Schiller, Lessing, Goethe, Freytag, and the foremost recent authors. Beginnings of German literature and history. Special preparation for scientific professional work. Open to students who have passed Course 1 or 2, or have fulfilled the entrance requirement in Elementary German. *Mon., Wed., Fri.,* at 3.30. Professor SCHOENFELD.

4. Identical with Course 3. *Tu., Th., Sat.,* at 5.40. Professor SCHOENFELD and Mr SCHMIDT.

5. Advanced course in German syntax; principal difficulties of the language; idioms; synonyms; extensive translation of the best English prosaists into German; essays; selected advanced prose; classical reading and literature; German history. Special training for advanced students in the historical and economic departments. Open to students who have passed Course 3 or have fulfilled the entrance requirements in Advanced German. *Mon., Wed., Fri.,* at 1.30. Professor SCHOENFELD.

Second Section. For Undergraduates and Graduates.

20. German Literature in the first half of the nineteenth century; its social and political aspects; special study of Kleist, Uhland, Heine; the Romantic School; classicism till Goethe's death; essays, lectures, and collateral reading. *Tu., Th.,* at 10.30. Professor SCHOENFELD.

21. German Literature of the Classic Period at its zenith; Goethe's and Winckelmann's influence on German art; Modern German drama; Hebbel, Ludwig, Freytag, Heyse, Sudermann, Fulda, Hauptmann. *Mon.,* at 10.30; *Wed.,* at 10; *Fri.,* at 10.30. Professor SCHOENFELD.

The intervening periods of Modern German Literature will be studied during the subsequent academic year.

Third Section. Primarily for Graduates.

40. German Literature in the sixteenth century. Braune's Neudrucke Deutscher Literaturwerke. Humanism and Reformation, with special reference to Italian and French influences and their historical basis. Original readings from the Humanists, Hans Sachs, Fischart, and Luther's works. The reformatory projects of Cardinal Nicolaus Cusanus and of Erasmus, Hutten, and Reuchlin. Two hours. Professor SCHOENFELD.

41. German Literature in the twelfth and thirteenth centuries, with special regard to the Nibelungen lay, the Gudrun saga, Wolfram von Eschenbach. The lyrics of Walther von der Vogelweide. The grammatical aspects of the classics of the first period of bloom. Two hours. Professor SCHOENFELD.

The other phases of older German literature and philology will be studied in subsequent years, so that the general range of the history of German Literature may be covered every three years.

45. The emerging of the Germanic, Romance, and Slavic races in European History. The Migration of Peoples. The Evolution of European States to the rise of the Hapsburg House. Cultural elements influencing the three predominating races of Europe. (Selections from the historical sources are read and interpreted.) Professor SCHOENFELD.

46. The Annihilation and Reconstruction of Prussia (Historical and literary sources will be searched). The Building up of the Modern German Empire (Archival studies, literary social forces, Bismarck's literary work). Professor SCHOENFELD.

47. Gothic. Gothic Grammar and translation of select passages from Wulfila. Mr. SCHMIDT.

The aim of this course and the one following is to give the student an insight not only into the development of the German language, but also into the principles of Germanic philology.

48. Old High German. Old High German Grammar and translation of select passages in prose and verse. This course alternates with the one in Gothic. Not given in 1906-07. Given in 1907-08. Mr. SCHMIDT.

For notice of the Richard Heinzel Germanic library, see page 134.

GRAPHICS.

EDWARD ADAMS MUIR, B.S.....	<i>Assistant Professor</i>
ISAAC ALLISON, B.S., E.E.....	<i>Instructor</i>
EDWIN V. DUNSTAN, B.S.....	<i>Instructor</i>

First Section. Primarily for Undergraduates.

1. Mechanical Drawing and Lettering. A study of geometrical and graphical constructions, including higher curves; orthographic and isometric projections; sections and intersections; dimensioning and conventional symbols; principles of working drawings, simple machine details, tracings, and blue prints; lettering as applied to mechanical, topographic, and architectural drawing. Six hours per week in the drawing-room. First section, *Mon., Wed.*, 1.30 to 4.30; second section, *Tu., Th.*, 4.50 to 6.30, and a third period to be assigned.

2. Advanced Mechanical Drawing. A course in working drawings especially designed for Electrical and Mechanical Engineering students. Drawing-room rules and practice; conventional forms and standards; arrangement of views and sections; freehand shop-sketches; detailing from sketches, models and general drawings; proportioning by empirical formulæ. Every effort is made to develop distinctness in delineation, accuracy in dimensions and professional style and finish in each drawing. Six hours a week in the drawing room. *Tu., Th.*, 4.50 to 6.30, and a third period to be assigned.

8. Descriptive Geometry. A study of the representation of lines, surfaces, and solids, and of their relations; tangencies, intersections, and developments; warped surfaces; shades and shadows; original construction problems. *Mon., Fri.*, at 5.40; drawing, *Fri.*, 10.30 to 1.30.

10. Topographic Drawing. A general course, including hypsographic expressions, topographic, cadastral, and public culture symbols; scales and plotting; projections, reductions, and enlargements; compilation, plain and in color. *Mon.*, 10.30 to 12.30.

Second Section. For Undergraduates and Graduates.

20. Graphic Statics. Principles and methods, including the construction and use of the force and equilibrium polygons; dead, live, snow and wind loads; the graphic analysis of beams, girders, roof and bridge trusses; masonry and three-hinged arches, construction of strain sheets, etc. *Tu., Th.*, at 5.40; drawing and design, *Fri.*, 1.30 to 3.30.

GREEK.

(See statement under Classical Languages and Literatures.)

HISTOLOGY.

JOHN B. NICHOLS, M.D.....	<i>Professor</i>
D. WEBSTER PRENTISS, M.D.....	<i>Assistant Professor</i>
HENRY M. JEWETT, M.D.....	<i>Assistant Instructor</i>
C. L. DAVIS, M.D.....	<i>Assistant Instructor</i>

Second Section. For Undergraduates and Graduates.

20. The minute structure of the tissues and organs of the body is presented in a systematic course of lectures illustrated by specimens thrown on the screen by means of the projection microscope. Subsequently the same structures are studied under the microscope.

Practical instruction is given in microscopical technique and in the care and manipulation of the microscope and the preparation of specimens. Primarily for students of medicine; open to advanced students in Arts and Sciences. First half-year, *Mon., Wed., Fri.*, 4.50 to 6.30.

HISTORY.

CHARLES CLINTON SWISHER, Ph. D., LL.D.....	<i>Professor</i>
WILLIAM HAMILTON, Ph.D.....	<i>Lecturer</i>
L. RUSSELL ALDEN, A.M.....	<i>Instructor</i>
EDWARD M. DAWSON, JR., B.S.....	<i>Instructor</i>
WALTER FARLEIGH DODD, Ph.D.....	<i>Instructor</i>

First Section. Primarily for Undergraduates.

1. Mediæval History. Beginning with a comprehensive survey of those conditions of ancient civilization which have been most potent in their influence upon later times, this course treats in detail the migration and settlement of the Germanic tribes in the territory of the Empire, and the gradual blending of Roman and Teutonic institutions into the modern state. Text-books, lectures, and collateral reading. *Mon., Wed., Fri.*, at 2.30. Mr. ALDEN.

2. Modern European History. A history of the European states, under the new conditions brought into existence by the Protestant Revolution, the invention of printing, and the discovery of America, to the period of the French Revolution. Text-books, lectures and reports. *Tu., Th., Sat.*, at 11.30. Mr. ALDEN.

3. English Constitutional History. A history of the evolution of parliamentary government, with incidental study of social and industrial development extending through the revolutionary settlement of 1689. Lectures, text-book and collateral readings. *Mon., Wed.*, at 4.50. Professor SWISHER and Mr. DAWSON.

Second Section. For Undergraduates and Graduates.

20. European History During the Revolutionary Period. The political significance of the Revolution of 1789, the career of Napoleon, and the subsequent progress toward constitutional government on the continent of Europe through the revolutionary movement of 1848. Lectures, text-books and examinations, with the assignment of special subjects for investigation and report. *Tu., Th.*, at 4.50. Professor SWISHER and Dr. HAMILTON.

21. Contemporaneous History. The realization of the movements toward national unity in Germany and Italy, with a discussion of

the resulting conditions in their relation to international politics. Lectures and examinations, with the assignment of special subjects for investigation and report. Open to students who have completed courses 1, 2, and 20. *Wed., Fri.*, at 2.30. Professor SWISHER and Dr. HAMILTON.

22. European Diplomatic History. A general history of the international relations of the European states from the treaties of Westphalia, with special discussion of some of the more recent treaties. Lectures, examinations and collateral reading. Open to students who have completed courses 20 and 21. *Wed., Fri.*, at 5.40. Professor SWISHER.

23. English Constitutional History since the Revolution of 1688; the beginnings of party government, the conflict between the Crown and the Whig oligarchy, and the reform movements of the nineteenth century. Examinations and collateral readings. Open to students who have completed course 3. *Tu., Th.*, at 2.30. Professor SWISHER and Mr. ALDEN.

24. The History of the British Empire. A study of the English foreign policy in early times; colonial expansion in the sixteenth, seventeenth, and eighteenth centuries; the establishment of protectorates and spheres of influence in the nineteenth, with incidental reference to the problems of imperial federation. Open to students who have completed the work in Mediæval, Modern European, and English History. Lectures, examinations, and collateral reading. *Tu., Th.*, at 3.30. Professor SWISHER and Mr. ALDEN.

25. American Colonial History. A study of the economic, political, and social conditions of the English colonies which led to the Revolution of 1776, and the movement toward national union. Lectures, text-books and collateral reading. *Mon., Fri.*, at 4.50. Dr. DODD.

26. American Constitutional History. The origin and development of the Federal Constitution of 1789, with a comprehensive study of its interpretation under the pressure of party issues extending through the periods of division and reunion. Lectures, text-books, and collateral reading. *Mon., Fri.*, at 4.50. Professor SWISHER.

27. American Industrial History. An economic interpretation of some of the more distinctive phases of American politics. Open to students who have completed courses 25 and 26. Two hours. *Tu., Th.*, at 4.50. Professor SWISHER.

28. Party Government in the United States. A study of the issues upon which parties are founded, with an examination into party methods as illustrated in political platforms, primaries, nominating

conventions, and campaign literature. Open to students who have taken courses 25 and 26. Two hours. *Wed., Fri.*, at 1.30. Professor SWISHER.

29. The Spanish Colonies in America. A study of the Spanish colonial policy as illustrated in the growth and subsequent independence of Mexico and the South American states. Lectures and examinations. Two hours. *Mon.*, at 9.30; *Wed.*, at 9.00. Professor SWISHER.

30. Current History. A discussion of political questions of the present time with special reference to their origin and historical significance. One hour. Lectures and examinations. *Wed.*, at 11.00. Professor SWISHER.

Third Section. Primarily for Graduates.

40. A discussion of the sciences auxiliary to historical study, of historical materials, and of the methods employed in the investigation, presentation and general treatment of historical evidence. The course is intended primarily as an object lesson in the principles of historical criticism, for the assistance of graduate students in the preparation of theses. Professor SWISHER.

41. American Constitutional History, 1776 to 1789. A history of the origin and formation of the Federal Constitution. Professor SWISHER and Dr. DODD.

42. The Slave System in American Politics. A study of parties and party issues from the period of the Missouri Compromise to the formation of the Republican Party. Professor SWISHER.

43. American History from 1860 to 1883. A constitutional study of the period of Civil War and Reconstruction. Professor SWISHER.

44. English Constitutional History from 1603 to 1689. A study of the constitutional issues between Crown and Parliament under the Stuarts through the Revolution of 1689. Professor SWISHER and Mr. ALDEN.

45. English History from 1783 to 1885. A history of the reform movement in England from the close of the American Revolution through the second ministry of Gladstone. Professor SWISHER and Mr. ALDEN.

46. The History of France from 1789 to 1804. Constitutional development in France from the meeting of the States General to the beginning of the First Empire. Dr. HAMILTON.

Work in seminaries. The results of individual research upon assigned topics, and reviews of recent political and historical publications by graduate students will be discussed at the weekly meetings of the seminaries of history.

HYDRAULIC ENGINEERING.

HENRY L. ABBOT, LL.D.....*Professor**Third Section. Primarily for Graduates.*

40. Laws of flowing water, in natural channels, in pipes, and over weirs, with modes of measurement.

41. Underground flow as sources of supply, with modes of estimation.

42. Relation of rainfall to run-off.

43. Regulation of river flow for purposes of navigation, and for protection against inundation.

44. Slack-water navigation, including dams, canal locks, and waste weirs.

45. Earth dams and river embankments, theory and modes of construction.

45. Effect of forests upon water supply.

HYGIENE.

W. F. R. PHILLIPS, M.D.....*Professor**Second Section. For Undergraduates and Graduates.*

20. The course in Hygiene is devoted to teaching the relations of habits and surroundings to health. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative interference in matters of public health. Primarily for students of medicine; open to advanced students in Arts and Sciences. Second half-year. Tu., at 8 a. m.

ITALIAN.

(See statement under Romance Languages and Literatures.)

LATIN.

(See statement under Classical Languages and Literatures.)

MATHEMATICS.

JAMES HOWARD GORE, Ph.D.....*Professor*
 PAUL NOBLE PECK, A.M.....*Instructor*

First Section. Primarily for Undergraduates.

2. Plane and Solid Geometry; Gore's Plane and Solid Geometry. *Tu., Th.*, at 5.40. Mr. PECK.

3. Solid Geometry; Gore's Plane and Solid Geometry. *Mon.*, at 9.30; *Wed.*, at 9; *Fri.*, at 9.30, October and November. Mr. PECK.

4. Algebra; Bowser's College Algebra. *Mon., Wed.*, at 4.50. Mr. PECK.

5. Algebra; Bowser's College Algebra. *Mon.*, at 9.30; *Wed.*, at 9; *Fri.*, at 9.30, December to March. Mr. PECK.

6. Solid Geometry; Gore's Plane and Solid Geometry. *Tu., Th., Sat.*, at 4.50, October and November. Mr. PECK.

7. Plane Trigonometry; Wells' Plane and Spherical Trigonometry. *Mon.*, at 9.30; *Wed.*, at 9; *Fri.*, at 9.30, April and May. Mr. PECK.

8. Algebra; Bowser's College Algebra. *Tu., Th., Sat.*, at 4.50, December to March. Mr. PECK.

9. Spherical Trigonometry; Wells' Plane and Spherical Trigonometry. *Mon.*, at 11.30; *Wed.*, at 11; *Fri.*, at 11.30; October and November. Professor GORE.

10. Plane Trigonometry; Wells' Plane and Spherical Trigonometry. *Tu., Th., Sat.*, at 4.50, April and May. Mr. PECK.

11. Analytic Geometry; Smith and Gale's Analytic Geometry. *Mon.*, at 11.30; *Wed.*, at 11; *Fri.*, at 11.30, December to May. Professor GORE.

12. Spherical Trigonometry; Wells' Plane and Spherical Trigonometry. *Mon., Wed., Fri.*, at 5.40, October and November. Mr. PECK.

14. Analytic Geometry; Plane and Solid; Smith and Gale's Analytic Geometry. *Mon., Wed., Fri.*, at 5.40, December to May. Mr. PECK.

NOTE.—Courses 2 and 4 are intended for students who desire to review some parts of elementary algebra and plane geometry, in

order to obtain that thorough and ready knowledge of these fundamental mathematical studies that is necessary for their proper use in other subjects. These classes are not intended for beginners, and only students who have studied elementary algebra and plane geometry are admitted.

Courses 3, 5, and 7 are designed to occupy one year; likewise Courses 2 and 4.

Engineering students whose time will permit are advised to complete during their first year algebra, geometry, trigonometry, and analytic geometry.

Second Section. For Undergraduates and Graduates.

20. Differential and Integral Calculus; Taylor. *Mon., Wed., Fri.*, at 4.50, for six months. Professor GORE.

21. Differential and Integral Calculus; Taylor. *Mon.*, 9.30, *Wed.*, at 9, *Fri.*, at 9.30, for six months. Professor GORE.

22. Differential Equations; Osborne. *Mon., Wed., Fri.*, at 4.50, April and May. Professor GORE.

23. Differential Equations; Osborne. *Mon.*, at 9.30; *Wed.*, at 9; *Fri.*, at 9.30. Professor GORE.

In all of the above courses the text is supplemented by lectures and the principles emphasized by proposing for solution a large number of problems taken from the best European and American authorities.

While the disciplinary value of the study of mathematics is never lost sight of, the importance of its practical application is insisted upon.

Third Section. Primarily for Graduates.

41. Theory of the Complex Variable. Lectures with reference to Durege and Forsyth. Two hours for four months. Professor GORE. (Not given in 1906-07.)

43. Functions. Lectures with reference to Harkness and Morley, Briot, and Legendre. Two hours for four months. Professor GORE. (Not given in 1906-07.)

45. Elliptic Functions. Lectures with reference to Cayley, Tannery and Molk and Kœnigsberger. Two hours.

MECHANICAL ENGINEERING.

FRANK VAN VLECK, M.E., Ph.D.....	Professor
EDWARD ADAMS MUIR, B.S.....	Assistant Professor of Graphics
PHILANDER BETTS, E.E....	Assistant Professor of Electrical Engineering
S. M. WOODWARD, M.S.....	Acting Assistant Professor
ISAAC ALLISON, B.S., E.E.....	Instructor

First Section. Primarily for Undergraduates.

1. Machine Design. The designing of machine elements, such as permanent and temporary fastenings, cranks, shafts, belt and toothed gear wheels, connecting, rotating and sliding pieces, by means of empirical and theoretical formulæ developed from applied mathematics and corrected to agree with experience and the best practice. Four hours in the drawing room. *Wed., Fri.*, 4.50 to 6.30.

2. Mechanism. The kinematics of machinery, in which mechanical movements are reduced to scientific analysis; carefully developed problems and diagrams of changes of position and speed in mechanisms. Considerations of motion independent of force; the slider crank train, the Peucellier cell and other special methods of treating kinematic problems; elements of kinematic nomenclature, as the methods of Willis, Reauleaux and others; computations for mechanism or gearing trains. *Tu., Th.*, at 9.30.

3. Mechanical Engineering of Power Plants. A descriptive study of the details comprised in power plants, including steam and gas engines and water turbines; boilers, including study of types, their relative advantages and disadvantages, and management; pumps, injectors and other machinery; selection and location and arrangement of apparatus. Second term, *Mon.*, at 10.30, *Wed.*, at 10, *Fri.*, at 10.30.

4. Mechanical Engineering of Power Plants. Completion of Course 3. First term, *Tu., Th.*, at 9.30.

5. Steam Engineering. Examination into the history of the growth of the steam engine, tracing of the logical development of the idea of the use of steam through successive mechanical and thermal improvements up to the modern steam motor; the rudimentary engine, the single acting and others devoid of mechanism; oscillating and trunk engines; use of the compound and multiple expansion principle; detail study of the modern high pressure, triple expanding and condensing steam engine; laws of thermodynamics in their application to engine design; thermal utilizations, losses and wastes incident to the use of fuel as a motive power;

the indicator diagram and the theta phi diagram; Zeuner diagram; types of valves and reversing gears; the effects of the reciprocating parts and inertia. *Tu., Th.*, at 4.50.

6. Engineering Drawing. Exercise in drawing and design in connection with Courses 3 and 5. The work is under two heads; power plant design and engine design. The first part comprises the complete design with plans and specifications for power plants of various types. Study is made of the plants in this vicinity as well as of the plans of important plants in other cities. The second part embraces the design of high speed and other engines, the valve motion and weight of moving parts being designed to give results which will conform to the requirements of an assumed indicator card. Six hours in the drawing room.

7. Mechanical Laboratory. Practical work in indicating steam engines; determining the evaporative efficiency of boilers; strength of materials; measurement of flow of water; gas engine brake tests; fuel value determinations. The primary object of this course is to afford to students the opportunity of testing machinery for efficiency. Students will be encouraged to adjust their machines for as wide a range of results as possible in order to fully expand the knowledge as to how these results will be thereby changed. Six hours a week, Junior year.

8. Wood-Work. Includes (1) exercises in planing, sawing, mortising, joining, framing, and other work involving the common carpenter's tools; (2) exercises involving the use of power machinery, circular saws, planer, scroll saw, lathe, etc.; (3) exercises in pattern making, including patterns and core boxes for various machine parts; (4) study of molding, casting, and foundry operation. Six hours a week. *Tu., Th.*, 1.30 to 4.30.

9. Metal Work. (1) Exercises in forging, heating, bending, welding, annealing, hardening, tempering, etc., including tool making. (2) Vise-work, including chipping, filing, scraping, polishing, etc. (3) Machine work in metals, including turning, planing, boring, grinding, etc. Six hours a week for Mechanical Engineering students; three hours a week for Electrical Engineering students.

10. Shop Practice and Testing. Consists largely of inspection and study of various mechanical plants; tests of machines, including study of power required for doing work. Three hours a week.

In addition to work in the shops, for each six hours of shop work, one hour is set apart for lectures and recitation, on the uses and handling of tools, operation of machinery, and on shop processes.

Second Section. For Undergraduates and Graduates.

20. Steam Engineering. Completion of Course 5. *Tu., Th.*, at 5.40.

21. Gas Engines. Gas and other internal combustion engines. The theory, design and practice concerning gas, gasoline and other engines. Lecture, laboratory and drawing room work. The starting point will be the study of the chemical conditions involved in gaseous explosion in confined spaces, with the analysis of the resultant thermal changes and final work; comparison of the available energy from illuminating and producer gas, vapors from gasoline, alcohol, etc. The gas engine cycle will be developed, as the two stage, four stage, as well as the possibility of expansion by multiple cylinders; then will follow practical development of the machine as based on its theoretical and chemical needs, with a full description of existing types. Before completion of this course there will be required from each student a complete and finished project or drawing, indicating a completely worked out gasoline engine to fulfil certain required conditions, and to be accompanied by the computations needed to attain the results. The laboratory work will consist of a series of tests for dynamometric power, conducted on the large Westinghouse gas engine at the University building, and other tests on gas mixtures and of power will be made on the small gas engine at the Engineering college. *Mon.*, 4.50 to 6.30.

23. Hydraulic Machinery. Hydraulic prime movers and pumping machinery. A course in theory and design, considering, turbines and laying down of turbine blades to fulfil a specified function; turbines for low and high heads; turbine governors; impulse wheels; water motors of the piston type; machinery for the utilization of hydraulic pressure; hydraulic pressure pumps and hydraulic presses; hydraulic tools; pumps and pumpage by steam, electricity or power; high-duty pumps; water meters. Two hours one term.

24. Machinery of Transmission. A continuation of Course 2. Transmission of power by wire ropes, belts, rods, bands and chains; action of screws and other solid connectors; the principles of gearing, with the limiting types of spur, bevel, helical and skew gears; higher gear trains; intermittent, stop and escapement trains; spur, bevel and rack, cam trains; eccentrics, cranks and other allied direct transmitters; clutches, brakes and other resisters; governors, controllers and regulators; linkages and parallel motions; development of the theory of kinematic nomenclature. *Wed., Fri.*, 5.40.

25. Mechanical Laboratory. A continuation of Course 7. Six hours a week, Senior year.

Third Section. Primarily for Graduates.

40. Advanced Steam-engine Design. Study of proportions of multi-expansion engines, with analysis of valves and link movements by Zeuner and other diagrams. Compilation of dimensions and attained results by reference to examples of best and recent practice.

41. Thermodynamics. See Physics.

42. Hydraulic Machinery. Pumps and pumping engines and the "duty" of pumping machinery and plants. Hydraulic-power applications and hydraulic-power transmission.

43. High Potential Engineering. Use of water under high heads or in large quantities. Study of modern turbines and high-speed wheels. With a library course, examining into the technical features of large hydraulic-power plants in this country or abroad, for this purpose using the files of the Congressional Library. The course is distributed in the three departments of Engineering, as follows:

I. Civil Engineering Problems for plants with large hydraulic heads by the Professor of Civil Engineering.

II. Hydraulic Prime Movers for water under high heads, by the Professor of Mechanical Engineering.

III. High Potential Electric Transmission, by the Professor of Electrical Engineering.

44. Compressed-air Machinery. Design of, with consideration of the mechanical and pneumatic principles. Transmission of air, with application in the arts.

45. Marine Machinery. Screw propulsion, design and proportioning of screws for assumed conditions of speed, displacement and horse-power, with examination into the requirements of engine design for merchant and naval vessels. Special needs of machinery and boilers on board ship, as the use of condensers, evaporators, distillers, etc., with study of the reasons for the design of the various types. Professor VAN VLECK.

46. Ordnance Engineering. 1. Exterior ballistics. 2. Interior ballistics, chemistry, and physics of explosives. 3. Metallurgy of gun steels and practice of heavy forgings. 4. Built-up guns, shrinkage, wire-winding, etc. 5. Gun design, mounts, turrets, rapid-fire and automatic guns. 6. Armor and projectiles. 7. Torpedoes and torpedo tubes.

47. Mechanical Refrigeration. Thermic principles involved in production of cold by expansion. Advantages possessed by use of ammonia, air, and other gases or fluids. Types of machines for these purposes in use.

48. Explosion Motors. The chemical and physical theory of, with examination into the essentials of the mechanical design, to be followed with a developed series of tests on the large Westing-house gas-engine, with which the mechanical-electrical laboratory of the University is provided. Professor VAN VLECK.

49. A thesis on a subject to be selected by the student and which must involve original work, indicating that the writer has some power for original design or investigation. The approval of the subject must be given by the Professor of Mechanical Engineering.

METEOROLOGY.

CLEVELAND ABBE, A.M., LL.D.....*Professor*

Third Section. Primarily for Graduates.

40. Experimental and Laboratory Work in Meteorology. The lectures treat of the theories of instruments and the laws of atmospheric phenomena, so far as they are susceptible of elucidation by laboratory experiment.

41. Practical Meteorology. The lectures treat of cartography; daily weather charts; methods of predicting the weather for a few days; long-range predictions for seasons; methods of verification; the climates of past geological ages; the methods of reduction and publication.

42. Physical and Theoretical Meteorology. The lectures sketch the present state of our knowledge of atmospheric phenomena as problems in thermodynamics and hydrodynamics, culminating in Bjerknes' treatment of the atmosphere as a field of force. An extensive course of reading and private study is marked out for the pupil, and his thesis for the degree of Ph.D. must be in the field of physical meteorology.

Courses 40, 41, and 42 embrace two lectures weekly and laboratory work.

PHILOSOPHY.

JAMES MACBRIDE STERRETT, A.M., D.D.....*Professor*
 WILLISTON S. HOUGH, Ph.M.....*Professor*
 GEORGE LANSING RAYMOND, L.H.D.....*Professor of Æsthetics*
 WILLIAM T. HARRIS, LL. D.....*Lecturer*

First Section. Primarily for Undergraduates.

1a. Introductory Course, comprising (1) Formal Logic: Abstract Principles of Deductive and Inductive Inference. Jevons' "Lessons in

Logic." *Mon.*, at 9.30; *Wed.*, at 9. (2) Introduction to Philosophy: Perry's "Approach to Philosophy," with lectures. *Fri.*, at 9.30. First half-year. Professor HOUGH.

1b. Introductory Course continued. (1) Elementary Psychology. James's "Psychology: Briefer Course." *Mon.*, at 9.30; *Wed.*, at 9. (2) Introduction to Philosophy. Perry's "Approach to Philosophy," with lectures. *Fri.*, at 9.30. Second half-year. Professor HOUGH.

This introductory course, or an equivalent, is required for admission to all other courses in Philosophy.

2. Psychology. General Course. Stout's "Manual of Psychology," with reference work and theses. *Mon.*, at 10.30; *Wed.*, at 10. Professor HOUGH.

3. Logic. Advanced Course. The Principles of Logic. Hibben's Logic, with reference work in Sigwart's Logic, Bradley's Principles of Logic, Bosanquet's Logic, etc. Theses. Not given in 1906-07; given in 1907-08. Professor HOUGH.

(Courses 2 and 3 are given in alternate years.)

Second Section. For Undergraduates and Graduates.

20. Greek and Christian Ethics. Critical reading of selected Dialogues of Plato and parts of Aristotle's Ethics, with introductory lectures and a sketch of Christian Ethics. First half-year. *Tu.*, *Th.*, at 10.30. Professor HOUGH.

21. Theory of Ethics. With special reference to modern theories. Mackenzie's "Manual of Ethics," supplemented by collateral reading and discussions. Second half-year. *Tu.*, *Th.*, at 10.30. Professor HOUGH.

(Should be preceded by Course 20.)

22. History of Philosophy. From the early Greek cosmologists to the Renaissance. Parts I and II of Rogers' "Student's History of Philosophy," with lectures, reports upon assigned reading, and discussions. First half-year. *Tu.*, *Th.*, at 11.30. Professor HOUGH.

23. History of Philosophy. From the Renaissance to the present time. Part III of Rogers' "Student's History of Philosophy," with lectures, collateral reading, and discussions. Second half-year. *Tu.*, *Th.*, at 11.30. Professor HOUGH.

(Must be preceded by Course 22.)

24. Epistemology. Lectures on the theory of knowledge of the Greek philosophers and first-hand study of the theories of Descartes, Locke, Berkeley, and Hume. First half-year. Two hours. Given in 1905-06; not given in 1906-07. Professor STERRETT.

25. The History and Psychology of Religion. Lecture course with prescribed readings and a thesis. *Wed.*, at 10, and *Fri.*, at 9.30. Professor STERRETT.

26. *Æsthetics*. Lectures on the philosophical principles of Art: their practical application shown to be similar in all its different departments. First half-year. *Wed.*, at 4.50. Professor RAYMOND.

27. Plato. Special study of *The Republic*. Knowledge of Greek desirable. Lectures and exposition, with a thesis. One hour a week. Professor STERRETT.

Third Section. Primarily for Graduates.

40. The Philosophy of Nature. A critical study of the fundamental concepts of modern physical science. Prescribed readings, reports, and theses. Second half-year. Two hours. Professor STERRETT.

41. The Critical Philosophy of Kant. Kant's *Critique of the Pure Reason* and the *Prolegomena*. Knowledge of German necessary. First half-year. Two hours. Professor STERRETT.

42. The Philosophy of Hegel. Hegel's *Logik* and *Philosophie des Geistes*. Knowledge of German necessary. *Mon.*, 10.30 to 12.30. Professor STERRETT.

43. Metaphysics. The fundamental problems of Philosophy—Materialism, Idealism, Pantheism, Theism. Second half-year. Two hours. Professor STERRETT.

44. The Philosophy of Religion. A lecture course pre-supposing Courses 22, 23 and 25. *Mon.*, at 9.30. Professor STERRETT.

45. The Philosophy of History. A course for graduate work. Conferences, prescribed readings and thesis. Dr. HARRIS.

46. Ten Lectures on the Philosophy of History, supplemented by a syllabus of prescribed readings, with theses and examination. Open to students who have taken at least Courses 22 and 23 in Philosophy and prescribed courses in History. Second term. Dr. HARRIS.

47. *Æsthetics*. Seminary Course. *Æsthetics*, considered philosophically, historically, and practically. Conferences, prescribed readings, and thesis. Professor RAYMOND.

48. The Theory of the State. Seminary for topical study and discussion. Willoughby's "The Nature of the State," supplemented by

collateral reading and lectures. Conferences, *Mon.*, 4.45 to 6.15. First half-year. Professor HOUGH.

(Should be preceded by courses in Psychology, Ethics, and the History of Philosophy.)

49. Political Ethics. (In sequence to Course 48.) Green's "Principles of Political Obligation," supplemented by lectures, reports upon collateral reading, and discussions. Conferences, *Mon.*, 4.45 to 6.15. Second half-year. Professor HOUGH.

50. The History of Political Theories. One hour. Professor HOUGH.

PHYSICS.

HOWARD L. HODGKINS, Ph.D.....	Professor
EDWARD B. ROSA, Ph.D.....	Professor
EDGAR BUCKINGHAM, Ph.D.....	Lecturer
OSCAR QUICK, A.M.....	Instructor

First Section. Primarily for Undergraduates.

1. General Physics. A recitation and lecture course, embracing the fundamental principles of mechanics, sound, heat, light, and electricity. The lectures are illustrated by experiments. Plane trigonometry is used in the course, and only students who have completed or are studying a college course in trigonometry are admitted. *Mon., Wed., Fri.*, at 4.50. Professor HODGKINS.

2. Laboratory Physics. A selected series of experiments, mainly quantitative. This course is designed to familiarize the student with the ordinary methods of exact experimentation, and to extend the knowledge of the principles of physics as gained in Course 1. Two two-hour periods. *Tu., Th.*, at 10.30. Professor HODGKINS and Mr. QUICK.

Second Section. For Undergraduates and Graduates.

20. Sound. A lecture and laboratory course. Three periods. *Mon.*, at 10.30; *Wed.*, at 10; *Fri.*, at 10.30. Professor HODGKINS.

21. Heat. A lecture and laboratory course, based on Preston's Theory of Heat and Maxwell's Theory of Heat. Three periods. *Mon., Wed., Fri.*, at 5.40. Professor HODGKINS.

22. Light. A lecture and laboratory course, based on Preston's Theory of Light and Schuster's Theory of Optics. Three periods. *Mon.*, at 11.30; *Wed.*, at 11; *Fri.*, at 11.30. Professor HODGKINS.

Third Section. Primarily for Graduates.

40. Light. Advanced study, experimental and mathematical, of some one branch of the subject. Professor HODGKINS.

41. Absolute Electrical Measurements. A course of lectures on the theory and practice of fundamental electrical measurements, including the more important methods for the measurement of resistance in absolute units, the absolute measurement of current and electromotive force, the determination of the ratio of the two systems of electrical units, the theory of various forms of condensers, the calculation of inductances from their dimensions, the experimental determination of capacities and inductances, and other important problems in electrical measurements. A brief history of the present electrical units and an account of the classical investigations by which their values have been determined will also be given. Professor ROSA.

42. Advanced Laboratory Work in Electrical Measurements. A course in advanced laboratory work in electrical measurements, for those who are qualified to undertake it. This may include a considerable range of work, or it may be research work on some important single subject. The amount and character of the work and the time and place at which it shall be done will be determined for each case separately. Professor ROSA.

43. Thermodynamics. The first term is devoted to the development of the theory and usual methods of thermodynamics for systems devoid of passive resistances. The second term is occupied with applications to problems in Physics and Physical Chemistry. Among the subjects discussed the following may be mentioned: Thermal properties of fluids, specific and latent heats, the plug experiment; change of state, heterogeneous dissociation, the phase rule; reactions in gas mixtures, homogeneous dissociation, theory of gas and other explosive engines; electromotive forces; thermodynamic properties of bodies in the electric or magnetic field; laws of radiation. Two hours. Dr. BUCKINGHAM.

44. Theory of Electricity and Magnetism. Maxwell's Electricity and Magnetism is used as a text-book. In the later part of the year some use will be made of Heaviside's Electromagnetic Theory. Familiarity with the rudiments of vector analysis is desirable, but not essential. Two hours. Dr. BUCKINGHAM.

Students who desire to specialize in physics in their undergraduate course should take Courses 1 and 2 in the first year, and should also study mathematics. In the second year one of the courses, 20, 21,

or 22, may be taken; in the third year the two remaining courses may be taken. In order to do this, calculus should be studied during the second year.

The Physical Laboratory is open from 9.30 a. m. to 10 p. m., giving students opportunity to do extra work.

PHYSIOLOGY.

WILLIAM P. CARR, M.D.....	<i>Professor</i>
CHARLES S. WHITE, M.D.....	<i>Assistant Professor</i>
H. C. ELLIOTT, M.D.....	<i>Instructor</i>
T. C. HOLLOWAY, M.D.....	<i>Assistant Instructor</i>

Second Section. For Undergraduates and Graduates.

20. This course consists of lectures, recitations, conferences, and laboratory exercises. The lectures are illustrated by diagrams, models, and prepared specimens. Recitations are held daily on assigned lessons from a standard text-book. Conferences are held weekly. The practical work is conducted in a well-equipped laboratory provided with modern apparatus. Primarily for students of medicine; open to advanced students in Arts and Sciences. Second half-year; lectures, *Mon., Wed., Sat.*, incl., 8.00 a. m.; Laboratory, *Mon., Wed., Fri.*, 2 to 4.

POLITICAL SCIENCE.

*.....	<i>Professor of Political Science</i>
JOHN W. FOSTER, LL.D.....	<i>Professor of American Diplomacy</i>
CHARLES C. SWISHER, Ph.D., LL.D....	<i>Professor of History and Politics</i>
WILLISTON S. HOUGH, Ph.M.....	<i>Professor of Political Theory</i>
JAMES BROWN SCOTT, A.M., J.U.D.....	<i>Professor of International Law</i>
HERMANN SCHOENFELD, Ph.D., LL.D.....	<i>Lecturer on European Politics</i>
MITCHELL CARROLL, Ph.D.....	<i>Lecturer on Roman Political Institutions</i>

The following courses, given primarily in the Department of Politics and Diplomacy, are open to advanced students in Arts and Sciences. For a complete statement of courses in Political Science, see the announcement of the Department of Politics and Diplomacy, pp. 208-210.

*To be appointed.

Second Section. For Undergraduates and Graduates.

21. Comparative Politics. Two hours. Professor ———.
22. Political History of the United States. Second half-year, two hours. Professor SWISHER.
23. The History of Political Theories. One hour. Professor HOUGH.
24. European Diplomacy. One hour. Professor J. B. SCOTT.
25. History of American Diplomacy and Treaties. First half-year, one hour. Professor FOSTER.
26. British Imperialism. Two hours. Professor SWISHER.
27. Bismarck as a Statesman. First half-year, one hour. (In alternate years; not given in 1906-07.) Professor SCHOENFELD.
28. Disraeli as a Statesman. First half-year, one hour. (In alternate years; given in 1906-07.) Professor SWISHER.
29. Colonial Politics. First half-year, one hour. Professor SWISHER.
30. Problems of Eastern Europe. Second half-year, one hour. (In alternate years; given in 1906-07.) Professor SCHOENFELD.
31. The Oriental Problem. Second half-year, one hour. (In alternate years; not given in 1906-07.) Professor SWISHER.
32. Public Life of the Romans. Second half-year, two hours. Professor CARROLL.

Third Section. Primarily for Graduates.

41. Seminary in Political Science. Professor ———.
42. The Theory of the State. Seminary for topical study and discussion. Willoughby's "The Nature of the State," supplemented by lectures and reports upon collateral reading. Conferences, first half-year. *Mon.*, 4.45 to 6.15. Professor HOUGH.
43. Political Ethics. Green's "Principles of Political Obligation," with lectures, reports, and discussions. Conferences, second half-year. *Mon.*, 4.45 to 6.15. Professor HOUGH.

PREVENTIVE MEDICINE.

GEORGE N. STERNBERG, M.D., LL.D.....Professor

Third Section. Primarily for Graduates.

40. Food preservatives in relation to the Public Health.
41. The hygienic results of milk sterilization.

42. The hygienic results of filtration of municipal water supplies.
43. The use of chemical agents for the sterilization of water supplies, municipal or domestic.
44. The results of legislative and philanthropic efforts to arrest the progress of tuberculosis in the United States, and especially in the principal cities.

PUBLIC LAW.

CHARLES WILLIS NEEDHAM, LL.D.....	Professor
JOHN M. HARLAN, LL.D.....	Professor
DAVID J. BREWER, LL.D.....	Professor
HANNIS TAYLOR, LL.D.....	Professor
ERNEST G. LORENZEN, Ph.D., LL.B., J.U.D.....	Professor
GEORGE WINFIELD SCOTT, LL.B., Ph.D.....	Professor
JAMES BROWN SCOTT, M.A., J.U.D.....	Professor
ALFRED NERINCX, LL.D.....	Professor
CARL HAU, M.A., LL.B.....	Assistant Professor

The following courses, given primarily in the Department of Law and Jurisprudence and of Politics and Diplomacy, are open to advanced students in Arts and Sciences. For a complete statement of courses in Public Law, see the announcements of these Departments, pp. 189-194 and 208-210.

Second Section. For Undergraduates and Graduates.

20. Constitutional Law. One hour. Professor HARLAN.
21. Origin and Growth of the Constitutional and Common Law of England. Two hours. Professor TAYLOR.
22. International Law. One hour. Professor BREWER.
23. Public Corporations. One half-year, two hours. Professor LORENZEN.
24. Railroad Law (including Interstate Commerce). Two hours. Professor NEEDHAM.
25. Roman Law. Two hours. Assistant Professor HAU.

Third Section. Primarily for Graduates.

41. Roman Law: (1) History and sources of Roman Law before the time of Justinian; (2) the Institutes of Gaius and the Corpus Juris of Justinian; (3) history of the Law during the Middle Ages; (4) Canon Law; (5) seminary in Roman Law. Assistant Professor HAU.

42. Seminary in the Common Law of England. Professor TAYLOR.
43. International Law: (1) International Law; (2) seminary in International Law; (3) International Law of Claims. Professors J. B. SCOTT and G. W. SCOTT.
44. Comparative Constitutional Law. Professor NERINCX.
45. Administrative Law: (1) Administrative Law; (2) Comparative Administrative Law. Professor G. W. SCOTT.
46. Comparative Private Law: (1) Comparative Commercial Law (not given in 1906-07); (2) Spanish-American Law.* Professor LORENZEN.

ROMANCE LANGUAGES AND LITERATURES.

GEORGE N. HENNING, A.M.....Professor
 OSCAR L. KEITH, A.M.....Instructor

FRENCH.

First Section. Primarily for Undergraduates.

1. Grammar, composition, drill in pronunciation. Fraser and Squair's French Grammar. Translation and reading of nineteenth century fiction and history. (400-500 pages.) For beginners. *Tu., Th., Sat.*, at 9.30. Mr. KEITH.
2. Parallel with Course 1. *Tu., Th., Sat.*, at 5.40. Mr. KEITH.
3. Grammar, composition, conversation. Fraser and Squair's French Grammar. Translation and reading. Sandeau, *Mlle. de la Seiglière*; Halévy, *Un mariage d'amour*; Daudet, *Trois Contes*; Mérimée, *Colomba*; A. France, *Sylvestre Bonnard*; Sarcey, *le Siège de Paris*; Coppée, *le Pater*; Molière, *l'Avare*. For outside reading, Zeller, *Richelieu*, or *Henri IV*. (About 1,000 pages.) Open to students who have passed in Course 1 or 2, or have fulfilled the admission requirements in Elementary French. *Mon., Wed., Fri.*, at 3.30. Professor HENNING.
4. Parallel with Course 3. *Tu., Th., Sat.*, at 4.50. Mr. KEITH.
6. General survey of French literature, seventeenth to nineteenth centuries; Warren's French Prose of the Seventeenth Century, Canfield's French Lyrics, Lacombe's *Petite Histoire du peuple français*, Crane's *la Sociëtë française au XVII^e siècle*, Corneille, Molière, La Fontaine, Racine, St. Simon, Montesquieu, Marivaux, Voltaire, Buffon, Rousseau, Beaumarchais, Hugo, Musset, Michelet, Balzac, Augier, Maupassant, Pailleron. (About 1,600 pages.) Translation, analyses of works read,

*A reading knowledge of Spanish is required.

collateral reading and reports thereon, lectures on literature, philology and history. Composition. Open to students who have passed in Course 3 or 4, or have fulfilled the admission requirements in Advanced French. *Mon., Wed., Fri.*, at 2.30. Professor HENNING.

Second Section. For Undergraduates and Graduates.

Courses in this group are open to students who have passed in Course 6, or who otherwise satisfy the instructor of their fitness to take them.

21. Seventeenth century literature; history, philosophy, criticism, memoirs, letters, eloquence, drama, fiction, poetry. Balzac, Descartes, Pascal, La Rochefoucauld, La Bruyère, Boileau, St. Simon, Mme. de Sévigné, Bossuet, Corneille, Racine, Molière, Fénelon, Malherbe, La Fontaine, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Given in 1906-07. Not given in 1907-08. *Tu., Th.*, at 11.30. Professor HENNING.

23. Eighteenth century literature; history, philosophy, criticism, letters, drama, fiction, poetry. Montesquieu, Diderot, Rousseau, Voltaire, Marivaux, Destouches, Sedaine, Beaumarchais, Bernardin de St. Pierre, André Chénier, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. Not given in 1906-07.

25. Nineteenth century literature; history, philosophy, criticism, memoirs, travels, fiction, drama, lyric poetry. Thierry, Michelet, Miguet, Thiers, Taine, Sainte-Beuve, Brunetière, France, Lemaitre, Renan, Gautier, Mme. de Staël, Chateaubriand, Dumas père, Hugo, George Sand, Mérimée, Balzac, Flaubert, Daudet, Maupassant, Loti, de Musset, Dumas fils, Augier, Maeterlinck, Rostand, Lamartine, de Vigny, the Romantic poets, the Parnassians, the Symbolists, etc. Translation, collateral reading and reports thereon, lectures on literature and history. Thesis. *Mon.*, at 11.30; *Wed.*, at 11; *Fri.*, at 11.30. Professor HENNING.

Third Section. Primarily for Graduates.

43. Old French and philology. Darmesteter's Historical French Grammar. La Chanson de Roland, etc. Professor HENNING.

47. The comedies of Molière. Professor HENNING.

Other courses may be arranged for competent graduates.

SPANISH.

First Section. Primarily for Undergraduates.

1. Grammar, composition. Hills and Ford's Spanish Grammar. Translation and reading of nineteenth century fiction and drama.

(About 700 pages.) Open to first-year students only by permission of the instructor. Open only to students who have had at least one year of French or Latin. Students may not elect Spanish and Italian in the same year. *Mon., Wed., Fri.*, at 4.50. Mr. KEITH.

Second Section. For Undergraduates and Graduates.

20. Translation and reading of nineteenth and seventeenth century works; history, fiction, drama, lyric poetry. (About 1,000 pages.) Lectures on literature and history. Open to students who have passed in Course 1 with at least the grade of C, or who otherwise satisfy the instructor of their fitness to take the course. Not given in 1906-07; given in 1907-08.

ITALIAN.

First Section. Primarily for Undergraduates.

1. Grammar, composition. Grandgent's Italian Grammar, Bowen's Italian Reader. Translation and reading of nineteenth century fiction and drama. (500-600 pages.) Not open to first-year students. Open only to students who have had at least one year of French or Latin. Students may not elect Italian and Spanish in the same year. *Tu., Th.*, at 10.30. Professor HENNING.

SEMITIC LANGUAGES AND LITERATURES.

FRANK LEIGHTON DAY, Ph.D.....*Professor*

First Section. Primarily for Undergraduates.

1. History of the Hebrews. This course covers the history of Israel from the beginning to the Maccabean Age, in successive steps: (a) From the beginning to Solomon. (b) From Solomon to Nehemiah. *Tu., Th.*, at 10.30.

2. New Testament Times. Including the political, social, and religious life from B. C. 175 to A. D. 70. *Tu., Th.*, at 11.30.

3. Life and Epistles of St. Paul.

Second Section. For Undergraduates and Graduates.

20. A Course for Beginners in Hebrew. Including the acquisition of the grammatical principles of the language, the vocabulary, and careful reading of Genesis, chapters I-VIII. Harper's Introductory Hebrew Method and Elements of Hebrew are used as text-books. *Tu., Th., Sat.*, at 9.30.

21. Historical Hebrew. The Books of Kings, a critical translation; special attention given to vocabulary and syntax. This course is a continuation of Course 20.

22. Prophecy. Its History and Development. This course includes the special study of some of the prophetic books, with the life and times of the writers. *Mon.*, at 10.30; *Wed.*, at 10.

25. The Apostolic Age. A study of the beginning and development of the Christian Church and its relation to the outside world. *Mon.*, at 9.30; *Wed.*, at 9.

Third Section. Primarily for Graduates.

40. The Minor Prophets. A course for advanced students in Hebrew, including Hebrew lexicography, etymology, and syntax.

41. Religion of the Semites. A general survey of the religions of Egypt, Babylonia, Assyria, and Western Asia.

42. The Code of Hammurabi and its Relation to the Decalogue.

44. The Life of Jesus. Based on the Gospels.

Other courses may be arranged for competent graduates.

SOCIOLOGY.

(See statement under Economics and Sociology.)

SPANISH.

(See statement under Romance Languages.)

ZOÖLOGY.

THEODORE NICHOLAS GILL, M.D., Ph.D., LL.D.....*Professor*
PAUL BARTSCH, M.S., Ph.D.....*Professor*

First Section. Primarily for Undergraduates.

1. Systematic Zoölogy. I. Invertebrates. This includes lectures and laboratory work. The lectures in their scope cover all the branches of Invertebrates, and correlated with these lectures is the study and dissection of typical specimens in each group. This course is intended to familiarize the student with biological charac-

ters, classificatory laws, and the general principles of evolution. Lecture, one hour; laboratory, two two-hour periods. *Mon., Wed., Fri.*, at 5.40. Professors BARTSCH.

2. Systematic Zoology. II. Vertebrates. This includes lectures and laboratory work. The lectures will cover the various branches of Vertebrata and correlated with these is the study and dissection of typical specimens of each group. Open only to students having completed Course 1. *Mon., Wed., Fri.*, at 4.50. Professor BARTSCH.

Second Section. For Undergraduates and Graduates.

20. Practical Zoology. A lecture course illustrated with lantern slides and demonstrations. In this course only beneficial and injurious animals of all classes will be considered, especial stress being laid upon the problems of preservation and extermination. The course aims to expound the economic side of zoology. Open to all students. One hour. Professor BARTSCH.

21. A Laboratory Course in Histology. This course is designed to acquaint the students with histological technique as well as the minute structure of the various organs composing the body of animals. Three hours. Professor BARTSCH.

22. A Laboratory Course in Physiology. This includes lectures and laboratory work. It considers the constituents of the body and the chemical changes which take place in the vital processes, as well as the secretions and excretions of the body. Prerequisites Course 20. Time to be announced. Professor BARTSCH.

23. Ornithology. A systematic course embracing lectures and laboratory work. The lectures are illustrated with lantern slides, showing the home life of birds. The laboratory work consists in classifying bird skins, of which the University possesses an excellent series. Special attention is directed to the study of the birds of the District of Columbia, and frequent field excursions are made to familiarize the student with the haunts and habits of these forms. Lecture, one hour; laboratory, one two-hour period. *Tu., Th.*, at 4.50. Professor BARTSCH.

24. Comparative Biology. This course consists of lectures and class-room demonstrations treating of the different functions and phenomena of life as they are exhibited in both animals and plants. The lectures occur once a week, and are given by the Professor of Zoology and the Professor of Botany alternately. They discuss the strictly biological processes in Nature—that is, those classed as vital processes—and show their relations and contrasts as viewed from

the two standpoints indicated. The series is based on the general classifications of the two sciences, beginning with the lowest forms. The alternate lectures are in this way co-ordinated; but aside from this mutual plan of procedure, each lecturer treats the subject independently. Wednesday afternoons, one hour; time to be determined. Professors BARTSCH and MANN.

25. Special courses for teachers in the public schools and others desiring to take up special or advanced lines of work may be arranged upon consultation with the professors.

The collections of the United States National Museum and the Smithsonian Institution are consulted in connection with all these courses.

Third Section. Primarily for Graduates.

40. A general course of lectures on the principles of zoology, including a consideration of the philosophy, the methods of investigation, and the systems of zoology as determined by comparative anatomy. The lectures are supplemented by work in the laboratory, embracing histology, microtomy, and dissection. The student is required to take up some subject or group for original investigation. The facilities and collections of the United States National Museum may be made use of. Professor GILL.

SCHEDULE OF RECITATIONS, 1906-1907.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Hour.
9.10.	Chapel.	Chapel.	Applied Mathematics, 20. History, 29.	Chapel.	Chapel.		9.10.
9.30.	Applied Mathematics, 20. History, 29. Mathematics, 3, 5, 7. Mathematics, 21. Philosophy, 1a. Semitic, 25.	Civil Engineering, 3. French, 1. Greek, 20. Mechanical Engineering, 2. Philosophy, 25. Semitic, 20.	9 { Applied Mathematics, 3, 5, 7. Mathematics, 21. Philosophy, 1a. Semitic, 25.	Civil Engineering, 3. French, 1. Greek, 20. Mechanical Engineering, 2. Philosophy, 25. Semitic, 20.	Applied Mathematics, 20. Mathematics, 3, 5, 7. Mathematics, 21. Philosophy, 1a.	French, 1. Semitic, 20.	9.30.
10.30.	Applied Mathematics, 21. Civil Engineering, 5. English, 3. German, 21. Graphics, 10. Mechanical Engineering, 3. Philosophy, 2. Physics, 20. Semitic, 22.	Civil Engineering, 3, 5. English, 1. German, 20. Italian, 1. Latin, 20. Philosophy, 20, 21. Physics, 2. Semitic, 1.	10 { Applied Mathematics, 21. Civil Engineering, 5. English, 3. German, 21. History, 30. Mechanical Engineering, 3. Philosophy, 2. Physics, 20. Semitic, 22.	Civil Engineering, 6, 21. English, 1. German, 20. Italian, 1. Latin, 20. Philosophy, 20, 21. Physics, 2. Semitic, 1.	Applied Mathematics, 21. Civil Engineering, 5, 20. English, 3. German, 21. Graphics, 8. Mechanical Engineering, 3. Physics, 20.	English, 1.	10.30.

11.30.	French, 25. Graphics, 10. Greek, 2. Mathematics, 9, 11. Physics, 22.	Civil Engineering, 3, 5. Electrical Engineering, 3. French, 21. German, 1. History, 2. Philosophy, 22, 23. Physics, 2. Semitic, 5.	II { French, 25. Greek, 2. Mathematics, 9. II. Physics, 22. }	Civil Engineering, 6, 21. Electrical Engineering, 3. French, 21. German, 1. Greek, 2. History, 2. Philosophy, 22, 23. Physics, 2. Semitic, 5.	Civil Engineering, 20. French, 25. Graphics, 8. Greek, 2. Mathematics, 9, 11. Physics, 22.	German, 1. History, 2.	11.30.
12.30.	Recess.	Recess.	Recess.	Recess.	Recess.		12.20.
1.30.	Electrical Engineering, 23. English, 27. German, 5. Graphics, 1a. Latin, 1.	Chemistry, 2, 3. Civil Engineering, 6, 21. Electrical Engineering, 4, 5, 24. English, 20. English, 30. Latin, 22. Mechanical Engineering, 7.	Civil Engineering, 21. Electrical Engineering, 23. English, 27. German, 5. Graphics, 1a. History, 28. Latin, 1.	Chemistry, 2, 3. Civil Engineering, 6, 21. Electrical Engineering, 4, 5, 24. English, 30. Latin, 23. Mechanical Engineering, 7.	English, 27. German, 5. Graphics, 20. History, 28. Latin, 1.		1.30.
2.30.	French, 6. Graphics, 1a. Greek, 1.	Chemistry, 2, 3. Civil Engineering, 1. Electrical Engineering, 4, 5, 24. English, 21. History, 23. Mechanical Engineering, 7.	French, 6. Graphics, 1a. Greek, 1. History, 21.	Chemistry, 2, 3. Civil Engineering, 1. Electrical Engineering, 4, 5, 24. English, 21. History, 23. Mechanical Engineering, 7.	French, 6. Graphics, 20. Greek, 1. History, 21.		2.30.

Hour.	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.	Hour.
3-30.	Economics, 1, 2. French, 3. German, 3. Graphics, 1a. Latin, 38.	Chemistry, 2, 3. Electrical Engineering, 4, 5, 24. History, 24. Mechanical Engineering, 7.	Economics, 1, 2. French, 3. German, 3. Graphics, 1a. Latin, 3.	Chemistry, 2, 3. Electrical Engineering, 4, 5, 24. History, 24. Latin, 2. Mechanical Engineering, 7.	Economics, 1, 2. French, 3. German, 3. Latin, 3.		3-30.
4-50.	Archæology, 22. Architecture, 2. Architecture, 6. Architecture, 23. Economics, 20. Electrical Engineering, 21. English, 2. Geology, 20. Mathematics, 4. Mathematics, 20, 22 Mechanical Engineering, 21. Physics, 1. Spanish, 1. Zoology, 2.	Architecture, 3. Architecture, 20. Chemistry, 1. Civil Engineering, 2. Electrical Engineering, 1, 2. Electrical Engineering, 21. English, 22. English, 34. French, 4. German, 2. Graphics, 16, 2. Mathematics, 6, 8, 10. Mechanical Engineering, 4. Sociology, 20, 21. Zoology, 23.	Applied Mathematics, 22. Architecture, 33. Chemistry, 23. Economics, 20. English, 2. Mathematics, 4. Mathematics, 20, 22. Mechanical Engineering, 1. Philosophy, 26. Physics, 1. Spanish, 1. Zoology, 2.	Archæology, 22. Architecture, 3. Chemistry, 1. Civil Engineering, 2. Electrical Engineering, 1, 2. Electrical Engineering, 21. English, 22. English, 34. French, 4. German, 2. Graphics, 16, 2. Mathematics, 6, 8, 10. Mechanical Engineering, 4. Sociology, 20, 21. Zoology, 23.	Applied Mathematics, 22. Architecture, 23. Chemistry, 23. Greek, 23. English, 2. Geology, 20. Mathematics, 20, 22. Mechanical Engineering, 1. Physics, 1. Spanish, 1. Zoology, 2.	Architecture, 2. Architecture, 6. Chemistry, 1. Electrical Engineering, 1, 2. Electrical Engineering, 21. French, 4. German, 2. Mathematics, 6, 8, 10.	4-50.

EXAMINATIONS.

Examinations are conducted under the following rules of the Board of Trustees:

Examinations for degrees shall close at least three weeks before the end of the scholastic year, and the names of all candidates for degrees who have passed a successful examination shall be officially reported to the President at least two weeks before the date of the commencement.

No student shall be credited with an examination for promotion from a lower to a higher class or to a final examination who is in arrears for tuition.

LIBRARY FACILITIES.

A well-equipped reference library and reading-room is open to students from 9 a. m. to 7 p. m. It contains encyclopædias, dictionaries, standard works in the various departments of study comprised under University subjects, and the leading literary and scientific magazines and reviews. The Germanic Library of the late Professor Richard Heinzel, of the University of Vienna, recently acquired by the University, contains 7,200 volumes and pamphlets bearing on Germanic philology and literature, and a large number of works and periodicals in the cognate branches, especially Anglo-Saxon, Old English, the Romance languages and Slavic.

The Library of Congress is steadily perfecting its collections of standard works in the various branches of university study, and advanced and graduate students are there given every facility for pursuing their investigations. The Public Library of the District of Columbia is being rapidly equipped with books of especial importance to students, and its facilities are available under the most favorable conditions. Under certain restrictions, the libraries of the governmental departments may also be utilized. All these libraries are within easy reach of the University.

TEACHERS' COURSES.

COMMITTEE IN CHARGE.

CHARLES E. MUNROE, *Chairman*.

WILLIAM A. WILBUR.

MITCHELL CARROLL.

For some years the University has opened certain of its courses which relate to those given in the public schools to teachers in the public schools of Washington, and two years ago a regular system

was inaugurated, to be carried into effect annually, in co-operation with the Superintendent of Schools of the District of Columbia.

For 1905-06 the following courses were offered:

Æsthetics. The essentials of the artistic in music, poetry, painting, sculpture, and architecture. *Fri.*, at 4.50, for first half-year. Professor RAYMOND.

Archæology, Classical. Private and public life of the Greeks and Romans. *Mon., Th.*, at 4.50. Professor CARROLL.

Architecture. A history of renaissance architecture down to modern times. *Mon., Fri.*, at 4.50. Professor ASH.

Diplomacy. History of American Diplomacy and Treaties. *Wed., Fri.*, at 5.40. Professor FOSTER.

Economics. An introductory course dealing with the nature and scope of economic science; the evolution and nature of human wants; the concept of value; the determination of price; the factors and methods of production; the movement of products, and the principles underlying the present system of wealth distribution. *Mon., Wed., Fri.*, at 3.30. Professor VEDRZ.

English. The development of the English novel, with critical studies of selected works, including some contemporary fiction. *Mon., Fri.*, at 5.40. Professor WILBUR.

History. A critical study of the French Revolution and the later progress toward constitutional government in France and the other Continental States. *Tu., Th.*, at 4.50. Professor SWISHER and Dr. HAMILTON.

Law, Constitutional. A study of the Constitution of the United States and of litigation arising under it. *Wed., Fri.*, at 4.50, for first half-year. Justice HARLAN.

The following Free Courses of instruction are offered to teachers during the academic year beginning September, 1906:

Æsthetics. The philosophical principles of art; and their practical application shown to be similar in all its different departments. *Mon., Wed.*, at 4.50. Professor RAYMOND.

Archæology, Classical. The topography and monuments of Athens and Rome, illustrated by plans, photographs, and lantern slides. *Mon., Th.*, at 4.50. Professor CARROLL.

Architecture. A History of Classical and Early Christian Architecture. *Tu.*, at 4.50; *Th.*, at 5.40. Professor BIBB.

Architecture B. History of Renaissance architecture down to modern times. *Mon., Fri.*, at 4.50. Professor ASH.

Biblical Literature. The social life of the Hebrews. *Sat.*, at 4.50. Professor DAY.

English. Shakespeare. The Comedies. *Tu., Th.*, at 4.50. Professor WILBUR.

History. A critical study of the French Revolution and the later progress toward constitutional government in France and the other Continental States. *Tu., Th.*, at 4.50. Professor SWISHER and Dr. HAMILTON.

Law, Constitutional. A study of the Constitution of the United States and of litigation arising under it. *Wed., Fri.*, at 5.40, for first half-year. Justice HARLAN.

Sociology, Theoretical and Practical. This course is divided into two parts. The first part treats of the scope of sociology; its relation to the several social sciences; the various concepts of society; the factors of social evolution; race, environment and heredity; forms of society; the development of social institutions; social progress. The second part considers the treatment of defectives, dependents and delinquents. The principal problems are immigration, pauperism, unemployment, charity organization and poor relief, slums, intemperance, and criminality. The course is not technical, but intended as a preparation for intelligent citizenship. From time to time specialists in social reform work are invited to lecture to the class. *Tu., Th.*, at 4.50. Professor VEDITZ.

Fifteen teachers will be admitted to each course on registration without fee. Regular attendance is expected. Notes must be taken and essays prepared and submitted when called for. Certificates may be issued on application, but a nominal fee will be charged for such certificates.

Application for registration tickets should be made to Mr. A. T. Stuart, Superintendent of Schools.

FEES.

ARTS AND SCIENCES.

1. Matriculation fee (payable only on first entry into the University) \$5
2. Library fee per annum..... 2
3. Tuition fee per annum for regular undergraduate courses (12 hours or more per week) or for graduate courses during the years of required work 150

4. Laboratory courses:

Material fees:

Chemistry 7, Mineralogy, each.....	5
Botany, Chemistry 2 and 3, Electrical Engineering, Physics 2 or 3, Zoölogy 1, 20 and 21, each.....	10
Chemistry 4 (Assaying).....	20
Chemistry, except 2, 3, 4 and 7, each.....	25

Deposits to cover breakage of apparatus issued, the amounts paid in excess of breakage to be returned:

Chemistry 7	5
Chemistry 2 and 3, each.....	10
Chemistry, except 2, 3, 4 and 7, each.....	25

5. Fee for graduation 10

6. Tuition fees per annum, for all departments of the University, for special courses on the basis of hours per week throughout the year.

One hour	25
Two hours	45
Three hours	60
Four hours	70
Five hours	80
Six hours	90
Seven hours	100
Eight hours	110
Nine hours	120
Ten hours	130
Eleven hours	140

7. Tuition fee for each of the following special courses, not taken by candidates for a degree 40

Architecture, Courses 37 and 38.

Chemistry Course 4 (Assaying).

8. Tuition fee per annum for a regular undergraduate course after four years of attendance at full tuition..... 75

9. In determining tuition fees, three hours of laboratory work in Chemistry and Architecture and two hours of laboratory work in other subjects count as one hour.

10. Fee for a certificate under the seal of the University..... 2

11. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as Auditors. No matriculation or library fee is charged.

No change will be made in the fees fixed at the time of registration except in the case of a change in or withdrawal from a course of studies, and then only upon notice in due form and from the end of the current quarter session when such change or withdrawal shall be approved. Applications for permission to change a course of studies or for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar and will only be received at the end of a quarter session.

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Tuition fees are payable quarterly in advance. Matriculation, library and laboratory fees are payable in full in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University building for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto, or in connection with any other matters looking to the comfort of students seeking a residence in the city of Washington.

HONORABLE DISMISSION.

An honorable dismission will always be granted to any student in good standing who may desire to withdraw from the University.

For catalogues, application blanks and further information address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

DEPARTMENT OF MEDICINE.

I. FACULTY OF MEDICINE.

(Arranged, with the exception of the President and the Dean, in the several groups in order of collegiate seniority.)

CHARLES WILLIS NEEDHAM, LL.D.,.....	PRESIDENT OF THE UNIVERSITY
WILLIAM F. R. PHILLIPS, M.D.,.....	Dean, Professor of Hygiene and Assistant Professor of Practical Anatomy
J. FORD THOMPSON, M.D.,.....	Professor of Surgery
ALBERT F. A. KING, A.M., M.D., LL.D.,.....	Professor of Obstetrics and Dean Emeritus of the Faculty
GEORGE N. ACKER, A.M., M.D.,.....	Professor of Pediatrics and of Clinical Medicine
HENRY C. YARROW, M.D.,.....	Professor of Dermatology
D. KERFOOT SHUTE, A.B., M.D.,.....	Professor of Anatomy and of Clinical Ophthalmology
WILLIAM P. CARR, M.D.,.....	Professor of Physiology and of Clinical Surgery
STERLING RUFFIN, M.D.,.....	Professor of Theory and Practice of Medicine and of Clinical Medicine.
WILLIAM K. BUTLER, A.M., M.D.,.....	Professor of Ophthalmology
THOMAS E. MCARDLE, A.M., M.D.,.....	Professor of Minor Surgery
JOHN VAN RENSSELAER, A.B., M.D.,.....	Professor of Clinical Surgery
CHARLES EDWARD MUNROE, Ph.D.,.....	Professor of Chemistry and Toxicology
CHARLES W. RICHARDSON, M.D.,.....	Professor of Laryngology and Otology
GEORGE WYTHE COOK, M.D.,.....	Professor of Clinical Medicine
J. WESLEY BOVEE, M.D.,.....	Professor of Gynecology
THOMAS A. CLAYTOR, M.D.,.....	Professor of Materia Medica and Therapeutics and of Clinical Medicine
A. R. SHANDS, M.D.,.....	Professor of Orthopedic Surgery
JAMES CARROLL, M.D.,.....	Professor of Bacteriology and Pathology
RANDOLPH B. CARMICHAEL, M.D.,.....	Professor of Clinical Dermatology
FRANCIS R. HAGNER, M.D.,.....	Clinical Professor of Genito-Urinary Surgery and Venereal Diseases
JOHN B. NICHOLS, M.D.,.....	Professor of Histology
WILLIAM C. WOODWARD, M.D., LL.M.,.....	Professor of Medical Jurisprudence
ALBERT L. STAVELEY, M.D.,.....	Clinical Professor of Gynecology

WILLIAM A. WHITE, M.D.....	Professor of Mental Diseases
CHARLES H. CLARK, M.D.....	Clinical Professor of Nervous Diseases
I. W. BLACKBURN, M.D.....	Professor of Morbid Anatomy
ARTHUR A. SNYDER	Clinical Professor of Surgery
EDWARD E. MORSE, M.D.....	Assistant Professor of Obstetrics
EDWARD G. SEIBERT, M.D.....	Assistant Professor of Chemistry
JULIAN M. CABELL, M.D.....	Assistant Professor of Obstetrics
D. WEBSTER PRENTISS, M.D.....	Assistant Professor of Histology
C. S. WHITE, M.D.....	Assistant Professor of Physiology
J. F. MITCHELL, M.D.....	Assistant Professor of Surgical Pathology
JOSEPH M. HELLER, M.D.....	Lecturer on Diseases of the Tropics
JOHN R. WELLINGTON, M.D.....	Assistant Professor of Clinical Surgery
JOHN H. LINDSEY, M.D.....	Assistant Professor of Pathology and Curator of the Pathological Museum
NOBLE P. BARNES, M.D.....	Lecturer on Materia Medica
SAMUEL H. GREENE, JR., M.D.....	Instructor in Anatomy
HOMER S. MEDFORD, M.D.....	Instructor in Obstetrics
L. H. REICHELDERFER, M.D.....	Instructor in Medicine
EDGAR P. COPELAND, M.D.....	Instructor in Surgery
J. L. RIGGLES, M.D.....	Instructor in Anatomy
H. C. MACATEE, M.D.....	Instructor in Medicine and Clinical Instructor
G. BROWN MILLER, M.D.....	Instructor in Gynecology
GEORGE M. RUFFIN, M.D.....	Instructor in Anatomy
THOMAS M. PRICE, Ph.D.....	Instructor in Bio-Chemistry
EUGENE LE MERLE, M.D.....	Clinical Instructor in Nervous Diseases and Assistant Instructor in Bacteriology and Pathology
OTIS D. SWETT, B.S.....	Instructor in Chemistry
T. S. D. GRASTY, M.D.....	Instructor in Bacteriology and Pathology
L. H. TAYLOR, M.D.....	Instructor in Clinical Medicine
HENRY R. ELLIOTT, M.D.....	Instructor in Physiology
WALTER H. MERRILL, M.D.....	Instructor in Electro-Therapeutics
H. H. DONNALLY, M.D.....	Instructor in Bacteriology and Pathology
B. M. RANDOLPH, M.D.....	Instructor in Pharmacology
HURON W. LAWSON.....	Demonstrator of Bacteriology and Pathology
O. A. M. McKIMMIE, M.D.....	Clinical Instructor in Laryngology and Ophthalmology
H. S. DYE, M.D.....	Clinical Instructor in Laryngology and Ophthalmology
C. M. BEALL, M.D.....	Instructor in Physical Diagnosis
H. C. COBURN, M.D.....	Instructor in Physical Diagnosis
WILBUR R. BRANDENBURG, M.D.....	Demonstrator of Bacteriology and Pathology
H. P. PARKER, M.D.....	Demonstrator of Bacteriology and Pathology
GEORGE B. HEINECKE, M.D.....	Assistant Demonstrator of Anatomy

VIRGIL B. JACKSON, M.D.....	Assistant Demonstrator of Anatomy
EDWARD ELLIOTT RICHARDSON, M.D., M.S.....	Assistant Demonstrator of Anatomy
W. A. FRANKLAND, M.D....	Assistant Demonstrator of Anatomy and Assistant Instructor in Clinical Gynecology
R. M. LITTLE, M.D.....	Assistant Demonstrator of Anatomy
JOSEPH D. ROGERS, M.D.....	Assistant Demonstrator of Anatomy
HENRY M. JEWETT, M.D.....	Assistant Instructor in Histology
C. L. DAVIS, M.D.....	Assistant Instructor in Histology
J. LAWN THOMPSON, M.D.....	Assistant Instructor in Surgery
J. A. HOLMES, M.D.....	Assistant Instructor in Histology
TRUMAN ABBE, M.D.....	Assistant Instructor in Physiology
CHARLES W. HYDE, M.D.....	Assistant in Surgery
A. L. HUNT, M.D.....	Assistant in Surgery
E. T. M. FRANKLIN, M.D.....	Assistant in Surgery
W. J. FRENCH, M.D.....	Assistant in Surgery

UNIVERSITY HOSPITAL.

VISITING STAFF.

J. FORD THOMPSON, M.D.....	Visiting Surgeon
W. P. CARR, M.D.....	Visiting Surgeon
STERLING RUFFIN, M.D.....	Visiting Physician
THOMAS A. CLAYTOR, M.D.....	Visiting Physician
GEORGE N. ACKER, M.D.....	Visiting Physician
A. F. A. KING, A.M., M.D., LL.D.....	Visiting Obstetrician
HENRY C. YARROW, M.D.....	Visiting Dermatologist
D. KERFOOT SHUTE, M.D.....	Visiting Ophthalmologist
CHARLES W. RICHARDSON, M.D.....	Visiting Laryngologist
J. WESLEY BOVEE, M.D.....	Visiting Gynecologist
W. K. BUTLER, M.D.....	Associate Visiting Ophthalmologist
JULIAN M. CABELL, M.D.....	Associate Visiting Obstetrician
E. E. MORSE, M.D.....	Associate Visiting Obstetrician
JAMES CARROLL, M.D.....	Pathologist

OUT-PATIENT DEPARTMENT.

SURGICAL DISPENSARY.

A. R. SHANDS, M.D.....	In charge
J. L. RIGGLES, M.D.....	Assistant
R. S. BEALE, M.D.....	Assistant
T. S. D. GRASTY, M.D.....	Assistant
E. L. MASON, M.D.....	Assistant

MEDICAL DISPENSARY.

JOHN H. LINDSEY, M.D.....	In charge
E. P. COPELAND, M.D.....	Assistant
W. A. FRANKLAND, M.D.....	Assistant
H. C. MACATEE, M.D.....	Assistant
S. H. GREENE, JR., M.D.....	Assistant
GEORGE M. RUFFIN, M.D.....	Assistant
H. C. COBURN, M. D.....	Assistant
B. M. RANDOLPH, M.D.....	Assistant
C. M. BEALL, M.D.....	Assistant
H. H. DONNALLY, M. D.....	Assistant
C. N. HOWARD, M.D.....	Assistant
T. M. FOLEY, M.D.....	Assistant

GYNECOLOGICAL DISPENSARY.

J. WESLEY BOVEE, M.D.....	In charge
G. BROWN MILLER, M.D.....	Assistant
A. B. HOOE, M.D.....	Assistant
V. B. JACKSON, M.D.....	Assistant
D. W. PRENTISS, M.D.....	Assistant
SAMUEL FRY, M.D.....	Assistant

EAR, THROAT, AND NOSE DISPENSARY.

CHARLES W. RICHARDSON, M.D.....	In charge
E. G. SEIBERT, M.D.....	Assistant
O. A. M. MCKIMMIE, M.D.....	Assistant

GENITO-URINARY DISPENSARY.

FRANCIS R. HAGNER, M.D.....	In charge
HENRY R. ELLIOTT, M.D.....	Assistant

EYE DISPENSARY.

D. KERFOOT SHUTE, M.D.....	In charge
E. G. SEIBERT, M.D.....	Assistant

SKIN DISEASE DISPENSARY.

HENRY C. YARROW, M.D.....	In charge
RANDOLPH B. CARMICHAEL, M.D.....	Assistant

GENERAL STATEMENT.

The Department of Medicine of The George Washington University is, in the chronological order of its establishment, the seventeenth Medical School in the United States. The first course of lectures began in March, 1825. For many years the school was known as the National Medical College; subsequently as the Department of Medicine of the Columbian University. By virtue of an Act of Congress, approved January 23, 1904, the Columbian University changed its name to "The George Washington University."

When first established, and for many years subsequent, this school, like most others in this country, gave only a two years' course of five months each. In 1878 the course was lengthened by the establishment of a Spring Session, devoted to lectures in certain special subjects. Again in 1879 the course was lengthened to seven months and attendance upon three annual sessions required; in 1893 attendance upon four regular courses was made obligatory upon all candidates for the degree of Doctor of Medicine. The present course of instruction for the degree of Doctor of Medicine extends through four years of eight months each. In order to increase the facilities for actual bedside teaching, the University Hospital was established in 1898 and made a part of the Department of Medicine. In 1902 the old building, in which the exercises were held since 1867, gave place to the present enlarged and commodious building.

The academic year begins on the last Wednesday in September and ends on the first Wednesday in June. The next session, the eighty-sixth, begins September 26, 1906, and ends June 5, 1907. Students must register their names promptly at the Registrar's office at the beginning of the session, in order that their time of study shall count as a full year. Examinations are held at the conclusion of the instruction in each subject; examinations are written, oral, and practical, so far as the nature of the subjects permit. Degrees are conferred at Commencement, the first Wednesday in June, and at the Winter Convocation, February 22.

For catalogues and other information address either the Registrar of the University or the Dean of the Department of Medicine, The George Washington University, Washington, D. C.

ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study medicine. For this purpose they must present a satisfactory certificate of their attainments from an approved school or college, or they must pass an examination.

Beginning with the session of 1909-10 no student will be matriculated for the degree of Doctor of Medicine (a) who has not completed satisfactorily in an approved college or scientific institution two years of work of a regular course for a baccalaureate degree or (b) who does not possess equivalent educational training and acquirements.

Applicants for matriculation will be required (a) to submit certificates, duly authenticated, of the college or scientific institution in which their work was done, setting forth the courses taken and the grades attained or (b) to pass satisfactorily examinations equivalent to the final examinations in subjects of the sophomore year of approved colleges or scientific institutions and aggregating fifteen units. In both cases, (a) and (b), one unit must be in physics and one unit in chemistry.

ADMISSION WITHOUT EXAMINATION.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of an approved college conferring on them the degree of A.B. or B.S., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the freshman class of an approved college.

(4) Upon presenting a medical student's certificate issued by a State board.

(5) Upon presenting a certificate of admission to another medical school approved by the University as maintaining an adequate standard.

ADMISSION BY EXAMINATION.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for admission to the Freshman Class of the Department of Arts and Sciences of the University, which is a four-year high-school course, or its equivalent. This examination comprises subjects selected from the annexed list equal to 15 units. For admission to the Department of Medicine nine (9) of the 15 units are required in the following subjects:

	Units.
English	4
Mathematics	3
Physics	1
Latin	1
<hr/>	
Total	9

The other 7 units may be selected from the other subjects. A unit is considered the equivalent of one year's high-school work in a subject.

LIST OF SUBJECTS.

English:	Units.
(a) Grammar	1
(b) Rhetoric and Composition	1
(c) Literature—a knowledge of the form, subject-matter, and literary history of prescribed works is required	2

The following are the works prescribed for 1906-07: Burke's Speech on Conciliation, Macaulay's Essay on Milton, Macaulay's Life of Johnson, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Shakespeare's Julius Cæsar. Equivalent readings may be offered.

Latin:	Units.
(a) Elementary Grammar	1
(b) Cæsar's Commentaries, Books I-IV.....	1
(c) Advanced Latin	2

Greek:	
(a) Elementary Grammar	1
(b) Xenophon or Homer	1
(c) Advanced Greek	1

Modern Languages:	
(a) Elementary French Grammar	1
(b) French, translation of easy prose.....	1
(c) Elementary German Grammar.....	1
(d) German, translation of easy prose.....	1

History:	
United States	1
English	1
Greek and Roman.....	1
General	1

Mathematics:	
(a) Algebra through quadratics	1½
(b) Plane Geometry	1
(c) Plane Trigonometry	½
(d) Advanced Mathematics	1

Sciences:	
Physics	1
Chemistry	1
Astronomy	½

	Units.
Biology	1
Geology	1/2
Botany	1
Physical Geography	1/2
Physiology	1/2
Ethics	1/2
Economics	1/2

The scope of the different subjects is indicated by standard high-school text-books.

Candidates may offer other subjects than those stated in the foregoing list of subjects, and if they are acceptable examinations will be arranged. A candidate may offer certificates of an approved school for work done in any of the foregoing subjects, and will be credited with the units represented by such work. A candidate failing to pass in two of the subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the second-year class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

As the laws relating to the preliminary educational qualifications required of students of medicine differ in many of the States of the Union, candidates are advised to make themselves familiar with the provisions of the medical statutes of the States in which they contemplate applying for license to practice. Attention to this precaution may save future embarrassment.

Examinations for admission to the first-year Medical class will be held in Hall No. 2 of the Medical Building in accordance with the following schedules:

May 28 and September 17, 10 a. m., English.

May 29 and September 18, 10 a. m., Mathematics.

May 31 and September 19, 10 a. m., Physics.

June 1 and September 20, 10 a. m., Latin.

June 2 and September 21, 10 a. m., Electives.

ADMISSION OF STUDENTS FROM OTHER SCHOOLS.

Students of other recognized and approved medical schools may be admitted to this school as follows:

Those qualified to enter the second year of their own school may be admitted to the second-year class of this school; those qualified to enter the third year of their own school to the third year of this school, and those qualified to enter the fourth year of their own school to the fourth year of this school, provided, however, that the subjects pursued by the applicants in their previous year or years

are reasonably equivalent to those required in the same year or years of this school, and that the requirements for advancement from class to class are the equivalent of those in this school. Applicants may be required to submit to examination in all the subjects pursued by the previous class of this school.

ADVANCED STANDING.

No advanced standing can be given for degrees in Dentistry, Veterinary Medicine, or Pharmacy.

Students holding degrees in Arts, Science, or Philosophy, who in the course of study for their degrees have pursued studies in chemistry, physiology, anatomy, histology, bacteriology, or pathology, equivalent to the courses in these subjects in this school, may upon satisfactory evidence of their proficiency be credited with such studies.

SPECIAL STUDENTS.

Students, approved by the Dean, not candidates for the degree of Doctor of Medicine, may be admitted without examination to pursue any course they may elect. Such courses cannot, however, be subsequently considered as time spent in the course for the degree of Doctor of Medicine. Nor can such students enter upon the regular medical course without complying with all the regular requirements for admission.

WITHDRAWALS.

A certificate of work actually done will be given to any student wishing to withdraw or transfer to some other school during the session. Written notice of such withdrawal or transfer must be filed with the Dean at the time of requesting the certificate, and the student must have paid all fees and dues chargeable against him up to the end of the quarter in which he withdraws.

CLASSIFICATION OF STUDENTS.

Students are divided into four classes, according to their proficiency, and the time spent, viz., first year, second year, third year, and fourth year. Students cannot advance to a higher class unless they pass the examinations in the major subjects of the class in which they are registered, and they can be conditioned in not more than two minor subjects. Students failing in a major subject and not more than two minor subjects will be permitted at the next examination period a re-examination in the subjects in which they fail.

The Faculty may dismiss any student from the school, if in its judgment such student be deemed an unsuitable person, intellectually or otherwise, for the profession of medicine.

ORDER OF INSTRUCTION.

A change in the arrangement of the subjects of the curriculum went into effect with the session of 1905-06. This change was made in order to secure a more logical correlation of the subjects, enabling the student to utilize his time to better advantage.

The subjects studied in each year are shown in the following table:

First year.	Second year.	Third year.	Fourth year.
Histology.	Organic and Physiological Chemistry.	Practice.	Clinical Medicine.
Anatomy.	Bacteriology.	Surgery.	Clinical Obstetrics
Physiology.	Pathology.	Obstetrics.	Clinical Surgery.
General Chemistry.	Materia Medica.	Therapeutics.	Laryngology.
	Hygiene.	Gynecology.	Otology.
	Clinical Microscopy.	Clinics.	Ophthalmology.
	Physical Diagnosis.		Dermatology.
			Psychiatry.
			Pediatrics.
			Neurology.

The general order of study is as follows:

First year, first half. Histology, Anatomy, Lectures on General Chemistry.

First year, second half. General Chemistry, Physiology, Anatomical Laboratory.

Second year, first half. Organic and Physiological Chemistry, Bacteriology.

Second year, second half. Pathology, Materia Medica and Pharmacology, Hygiene, Clinical Microscopy, Physical Diagnosis.

During the third year Therapeutics, Surgery, Obstetrics, Practice, and Gynecology are studied.

The greater part of the fourth year is devoted to clinical work in the hospitals. During this year, however, general instruction is also given in Mental Diseases, Neurology, Dermatology, Ophthalmology, Laryngology, and Otology. Not less than 1,000 hours of clinical work is required.

OPTIONAL FIVE-YEAR COURSE.

Beginning with the session of 1905-06 a five-year optional course is offered. In this course the subjects, selected from the regular four-year course, are as follows:

First year.	Second year.	Third year.	Fourth year.	Fifth year.
Anatomy.	Physiological and Organic Chemistry.	Bacteriology.	Practice.	Clinical Medicine.
Histology.	Physiology.	Pathology.	Surgery.	Clinical Obstetrics.
General Chemistry.	Materia Medica.	Hygiene.	Obstetrics.	Clinical Surgery.
		Therapeutics.	Gynecology.	Laryngology.
		Clinical Microscopy.		Otology.
				Ophthalmology.
				Dermatology.
				Psychiatry.
				Pediatrics.
				Neurology.

This course requires an average of not less than 800 hours annually.

Examinations are held at the end of each course. Subsequently recitations are had in each subject in order that the knowledge acquired may be kept fresh in mind. A general examination is held at the end of the fourth year, for the optional course at the end of the fifth year.

ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....	<i>Professor of Anatomy</i>
W. F. R. PHILLIPS, M.D.....	<i>Assistant Professor of Practical Anatomy</i>
GEO. B. HEINECKE, M.D.....	<i>Assistant Demonstrator of Anatomy</i>
VIRGIL B. JACKSON, M.D.....	<i>Assistant Demonstrator of Anatomy</i>
E. E. RICHARDSON, M.D., M.S.....	<i>Assistant Demonstrator of Anatomy</i>
W. A. FRANKLAND, M.D.....	<i>Assistant Demonstrator of Anatomy</i>
S. H. GREENE, JR., M.D.....	<i>Instructor in Anatomy</i>
J. L. RIGGLES, M.D.....	<i>Instructor in Anatomy</i>
R. M. LITTLE, M.D.....	<i>Assistant Demonstrator of Anatomy</i>
GEO. M. RUFFIN, M.D.....	<i>Instructor in Anatomy</i>
JOS. D. RODGERS, M.D.....	<i>Assistant Demonstrator of Anatomy</i>

The course in Anatomy is given in a series of lectures, demonstrations, recitations from text-books, and practical laboratory work. The purpose of the lectures is to prepare the student for his practical work in the laboratory. The lectures are illustrated by lantern slides, models, charts, and diagrams. The class is divided into small sections for the purpose of demonstrating the bones, joints, actual dissections, and frozen sections. The student, having been so prepared, is required to dissect satisfactorily one lateral half of the cadaver. Throughout the course every opportunity is taken to emphasize the application of Anatomy to the practice of medicine in all its departments. The course is practically completed in the first year, but, realizing the fundamental importance of anatomy to medicine, review recitations and demonstrations are provided weekly during the second year.

Text-books: Cunningham's Text-book of Anatomy, Gray's Anatomy, Cunningham's Manual of Practical Anatomy.

Collateral reading: Quain's Anatomy, Spalteholz's Anatomy, Taylor's Applied Anatomy, Wiedersheim's Structure of Man.

GRADUATE COURSE IN ANATOMY OF THE NERVOUS SYSTEM.

This course includes laboratory work, readings, and recitations. The nervous system is investigated in typical animals of the different classes, especially with the view of gaining some insight into the phylogeny of the central nervous system in man. The growth of the brain and its physical characters as related to intelligence are investigated. The histology and embryology of the central nervous system and the sense organs are studied. A history of the guiding conceptions in neurology is to be acquired. The course is designed to inculcate a sound knowledge of the architecture and functions of the nervous system of man for the use of students of anatomy, medicine, and psychology.

HISTOLOGY.

JOHN B. NICHOLS, M.D.....	<i>Professor of Histology</i>
D. WEBSTER PRENTISS, M.D.....	<i>Assistant Professor of Histology</i>
HENRY M. JEWETT, M.D.....	<i>Assistant Instructor in Histology</i>
C. L. DAVIS, M.D.....	<i>Assistant Instructor in Histology</i>
J. A. HOLMES, M.D.....	<i>Assistant Instructor in Histology</i>

Instruction in Histology is given in the first half of the first year. The minute structure of the tissues and organs of the body is presented in a systematic course of lectures illustrated by images, and specimens thrown on the screen by means of the projection microscope. The same specimens are also studied under the microscope. Recitations are held upon the subjects shown and studied. Practical instruction is given in microscopical technique, the care and manipulation of the microscope, and the preparation of specimens.

Text-book: Nichols's Histology.

Collateral reading: Böhm and von Davidoff's Histology, Stohr's Histology.

PHYSIOLOGY.

WILLIAM P. CARR, M.D.....	<i>Professor of Physiology</i>
CHARLES S. WHITE, M.D.....	<i>Assistant Professor of Physiology</i>
H. C. ELLIOTT, M.D.....	<i>Instructor in Physiology</i>
TRUMAN ABBE, M.D.....	<i>Assistant Instructor in Physiology</i>

This course consists of lectures, recitations, conferences, and laboratory exercises. Lectures are given daily during the second half of the first year, and cover all the important facts and theories pertaining to the subject. The lectures are illustrated by diagrams, models, and prepared specimens. Recitations are held daily on assigned lessons from a standard text-book. Conferences are held weekly. The practical work is conducted in a well-equipped laboratory provided with modern apparatus. An abundant supply of material is kept throughout the year. Each student is required to set up apparatus and perform a number of experiments under the direction of an instructor. Demonstrations are given only when the experiment is such that it cannot be carried out by the student. The student is required to keep a record of the exercises performed, and these are regularly criticised by the instructors. The class is divided into small sections, so that each student receives a large amount of personal attention. A series of review recitations is conducted weekly during the second year, special emphasis being laid

upon the relation of normal physiological function to pathological function.

Text-book: Kirke's Physiology.

Collateral reading: Landois' Physiology, American Text-book of Physiology, Raymond's Physiology.

CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....	<i>Professor of Chemistry and Toxicology</i>
EDWARD G. SEIBERT, M.D.....	<i>Assistant Professor of Chemistry</i>
THOMAS M. PRICE, Ph.D.....	<i>Instructor in Bio-Chemistry</i>
OTIS D. SWETT, B.S.....	<i>Instructor in Chemistry</i>
ELMER S. NEWTON, M.D.....	<i>Instructor in Chemistry</i>
ARTHUR N. TASKER, B.A.....	<i>Assistant</i>
ERNEST W. BROWN, Ph.D.....	<i>Assistant</i>

General Chemistry. A series of illustrated lectures, accompanied by recitations and exercises, on theoretical, inorganic, organic, and technical chemistry. *Tu., Th., Sat.*, at 4.50 p. m. Professor MUNROE, Mr. SWETT.

Organic Chemistry. A series of lectures and recitations on the acyclic and cyclic hydrocarbons and their derivatives, with special reference to physiology and medicine. *Mon., Th.*, at 5.40 p. m. Professor MUNROE.

Physiological Chemistry. A series of lectures and recitations on the proximate principles of the human body, such as the proteids, carbohydrates, fats, and the relation of the chemical constitutions of these bodies to physiological processes, together with a consideration of the principal secretions and excretions of the human body. Asst. Professor SEIBERT.

Analytical Chemistry. A brief course in qualitative and quantitative analysis, with a view to acquainting the student with those methods which may be applied in medicine and the special tests for the alkaloids. Professor MUNROE, Asst. Professor SEIBERT, Assistants TASKER and BROWN.

Clinical Analysis. A laboratory course covering urinalysis, examinations of the gastric fluid, analyses of milk and of water, a study of alkaloidal reactions, and a practical examination of the chemical properties of the substances treated of in the course of physiological chemistry. Professor MUNROE, Asst. Professor SEIBERT, Assistants TASKER and BROWN.

Volumetric Analysis. A brief laboratory course, introducing acidimetry and alkalimetry as a basis for quantitative examination of water, urine, and gastric fluids. Professor MUNROE and Dr. NEWTON.

Text-books. Holland's Medical Chemistry and Toxicology, Long's Text-books of Physiological Chemistry, Platt's Manual of Qualitative Analysis and Medical Chemistry.

Collateral reading: Simon's Manual of Chemistry, Hammarsten's Physiological Chemistry, Richter's Organic Chemistry, Barker's Text-book of Elementary Chemistry.

ADVANCED WORK.

Bio-Chemistry. A laboratory course in the chemical examination of some of the chief foodstuffs, the tissues and fluids of the body, and the products of certain organisms; also the isolation of the digestive enzymes and a study of their action *in vitro*. Dr. PRICE.

MATERIA MEDICA AND THERAPEUTICS.

THOMAS A. CLAYTOR, M.D.....	<i>Professor of Materia Medica and Therapeutics</i>
NOBLE P. BARNES, M.D.....	<i>Lecturer on Materia Medica</i>
WALTER H. MERRILL, M.D.....	<i>Instructor in Electro-Therapeutics</i>
B. M. RANDOLPH.....	<i>Instructor in Pharmacology</i>

This course is given in the second and third years.

Second year. (1) Lectures upon Materia Medica, including a demonstration of drugs and their preparations. (2) Recitations upon the preparations, their doses, and the various antidotes for poisons. (3) Practical exercises in prescription writing. (4) An optional course in Pharmacy is offered.

Third year. (1) Systematic lectures upon the physiological action of drugs and their effects in health and disease, their therapeutic uses, and their methods of administration. (2) Lectures and section demonstrations in electro-therapeutics. (3) Demonstrations in the laboratory illustrating the physiological action of the more important drugs. (4) Prescription writing, in which the students are given hypothetical cases for which to prescribe. Prescriptions are corrected and returned to the students. Students are also required to write prescriptions upon the black-board before the class, and other members are called upon to criticise, correct mistakes, suggest improvements or objections.

Text-book: Wood's Therapeutics.

Collateral reading: Hare's Practical Therapeutics, Culbreth's Materia Medica and Pharmacy, Cushing's Pharmacology.

BACTERIOLOGY AND PATHOLOGY.

JAMES CARROLL, M.D.....	<i>Professor of Bacteriology and Pathology</i>
JOHN H. LINDSEY, M.D.....	<i>Assistant Professor of Pathology and Curator of Pathological Museum</i>
T. S. D. GRASTY, M.D.....	<i>Instructor in Bacteriology and Pathology</i>
H. H. DONNALLY, M.D.....	<i>Instructor in Bacteriology and Pathology</i>
EUGENE LE MERLE, M.D....	<i>Demonstrator of Bacteriology and Pathology</i>
HURON W. LAWSON, M.D.....	<i>Demonstrator of Bacteriology and Pathology</i>
WILBUR R. BRANDENBURG, M.D.....	<i>Demonstrator of Bacteriology and Pathology</i>
H. C. COBURN, M.D.....	<i>Demonstrator of Bacteriology and Pathology</i>
H. P. PARKER, M.D.....	<i>Demonstrator of Bacteriology and Pathology</i>

The course in Bacteriology and Pathology is given in the second year.

In Bacteriology the work includes (1) the preparation of the various culture media, (2) the principles of disinfection and sterilization, and (3) the methods of cultivating, staining, and studying bacteria. Special attention is given to the pyrogenic organisms and the bacilli of diphtheria and tuberculosis.

The latter half of the session is devoted to Pathology, and the student is now prepared to appreciate the association of bacteria with certain definite lesions in the tissues. After the detailed study of inflammation, the diseases of the various organs are taken up in succession. For this purpose sections illustrating the various pathological conditions are carefully selected and given to the student to be stained, mounted, and studied under the immediate supervision of an instructor. These sections thereafter become the property of the student. The course terminates with the microscopical study of the several varieties of tumors.

The course in Clinical Microscopy is given at the conclusion of that in Pathology. It embraces the study of fresh and stained preparations of human blood in normal and pathological conditions; the Widal test for typhoid fever; the developmental stages of the malarial parasites in the blood and in the mosquito; the common forms of intestinal parasites and the microscopical examination of the urine. In the fourth year students are required to spend two weeks in the clinical laboratory of the University or other approved hospitals.

Text-books: Abbott's Principles of Bacteriology, Durch's General Pathology, Ziegler's Pathological Anatomy.

ADVANCED WORK.

Advanced students who desire to continue the work are encouraged to undertake bacteriological and pathological studies of the cases that come to autopsy.

Candidates seeking Master's degrees may undertake special studies and practical research work in Bacteriology, provided they have already taken at least one course of study in this subject, including elementary practical work in the laboratory.

Candidates for the degree of Doctor of Philosophy may elect to take Bacteriology either as a major or a minor topic. In the former case they must submit evidence to show that they have already received at least a single complete course of instruction, including the necessary elementary practical work in this subject.

HYGIENE.

W. F. R. PHILLIPS, M.D.....*Professor of Hygiene*

The course in Hygiene is devoted to teaching the relations of habits and surroundings to health. Consideration is given to domestic and municipal sanitation and to the principles underlying legislative interference in matters of public health. This course is given principally by recitation from a prescribed text-book. The subject is taught in the second year.

Text-book: Harrington's Hygiene.

Collateral reading: Notter and Firth's Hygiene.

SURGERY.

J. FORD THOMPSON, M.D.....*Professor of Surgery*
 THOS. E. MCARDLE, M.D.....*Professor of Minor Surgery*
 A. R. SHANDS, M.D.....*Professor of Orthopedic Surgery*
 JAMES F. MITCHELL, M.D....*Assistant Professor of Surgical Pathology*
 E. P. COPELAND, M.D.....*Instructor in Surgery*
 J. LAWN THOMPSON, M.D.....*Assistant in Surgery*
 CHARLES W. HYDE, M.D.....*Assistant in Surgery*
 A. L. HUNT, M.D.....*Assistant in Surgery*
 W. J. FRENCH, M.D.....*Assistant in Surgery*
 E. T. M. FRANKLIN, M.D.....*Assistant in Surgery*

The instruction given in this course embraces systematic lectures upon the principles and practice of surgery. Recitations are held twice a week, in which the subjects presented by the lecturer are impressed

upon the students. The different surgical operations are illustrated upon the cadaver, and the uses of all the important surgical instruments and appliances are demonstrated in the same manner.

Minor Surgery. Practical instruction is given in the application of splints, bandages, and dressings used in the various surgical diseases and injuries. Lectures and practical instruction are also given in the preparation of materials used in antiseptic and aseptic surgery, the preparation of the patient, sterilization of the instruments, and the methods of administering anesthetics.

Orthopedics. A course of lectures and recitations on the pathology, etiology, course, and termination of chronic joint diseases is given.

Surgical Pathology. A systematic series of demonstrations upon the pathological anatomy of surgical diseases and injuries is given. These demonstrations are supplemented by reference to microscopical specimens, charts, photographs, and diagrams.

Text-books: American Text-book of Surgery, Wharton's Minor Surgery.

Collateral reading: von Bergmann's System of Surgery, Park's Surgery by American Authors.

CLINICAL SURGERY.

J. FORD THOMPSON, M.D.....*Professor of Clinical Surgery*
 CHARLES W. RICHARDSON, M.D.....*Clinical Professor of Laryngology*
 JOHN VAN RENSSELAER, A.B., M.D.....*Clinical Professor of Surgery*
 W. K. BUTLER, M.D.....*Clinical Professor of Ophthalmology*
 D. KERFOOT SHUTE, A.B., M.D....*Clinical Professor of Ophthalmology*
 WILLIAM P. CARR, M.D.....*Professor of Clinical Surgery*
 A. R. SHANDS, M.D.....*Clinical Professor of Orthopedic Surgery*
 FRANCIS R. HAGNER, M.D.,*Clinical Professor of Genito-Urinary Surgery*
 JOHN R. WELLINGTON, M.D.....*Assistant Clinical Professor of Surgery*
 ARTHUR A. SNYDER, M.D.....*Clinical Professor of Surgery*

General Surgery. In the third year amphitheater clinics are given, at which the general principles of surgical diagnosis and of operative technique and procedure are emphasized and illustrated.

General and Special Surgery. In the fourth year the class is divided into sections for the study and examination of surgical cases in the hospital wards. The students are also assigned to work as dressers and assistants on the surgical out-patient departments of the different hospitals. Practical work is required of each student in preparation of dressings, sterilization of instruments, and operations on the cadaver. In the latter part of the year each student is given an opportunity to assist at a major operation. The clinical work is supplemented by the study and discussion of case histories.

In ophthalmology, otology, and laryngology the students are required to attend a certain number of clinics, and each student must report upon one assigned case.

In orthopedics they are required to take clinical instruction in the application of special apparatus and of plaster of paris to the correction of deformities.

Instruction in genito-urinary surgery and in cystoscopy is given in clinics and in section work.

OBSTETRICS.

ALBERT F. A. KING, A.M., M.D., LL.D.....	<i>Dean Emeritus, Professor of Obstetrics</i>
EDWARD E. MORSE, M.D.....	<i>Assistant Professor of Obstetrics</i>
JULIAN M. CABELL, M.D.....	<i>Assistant Professor of Obstetrics</i>
H. S. MEDFORD, M.D.....	<i>Instructor in Obstetrics</i>

The course in Obstetrics comprises a series of lectures on the science and art of midwifery, and is given in the third year. The chief purpose of the lecturer is to arrange, simplify, and explain the matters studied in the text-books, so as to render them more easily intelligible and to indicate their relative importance. The lectures are illustrated by diagrams, models, manikins, natural preparations, and instruments. The class is divided into sections, and each student performs various obstetrical operations upon the manikin. Recitations from text-books are held throughout the term. In the fourth year clinical instruction in obstetrics is given, the class being divided into small sections and each section being required to attend a stated number of cases.

Text-book: King's Manual of Obstetrics.

Collateral reading: Hirst's Obstetrics, Williams' Obstetrics, Jewett's Practice of Obstetrics.

THEORY AND PRACTICE OF MEDICINE.

STERLING RUFFIN, M.D.....	<i>Professor of Theory and Practice</i>
L. H. REICHELDERFER, M.D.....	<i>Instructor in Medicine</i>
H. C. MACATEE, M.D.....	<i>Instructor in Medicine</i>
C. M. BEALL, M.D.....	<i>Instructor in Physical Diagnosis</i>
H. C. COBURN, M.D.....	<i>Instructor in Physical Diagnosis</i>

The method of instruction employed in this subject is as follows: (1) Lectures with weekly recitations. (2) Clinical lectures at the University Hospital, with practical instructions in the art of diagnosis and methods of taking and recording the history of medical cases.

(3) Laboratory instruction in the use of instruments of research for the clinical study of sputum, blood, feces, etc. (4) A course of lectures to the class in physical diagnosis.

Text-books and works of reference: Osler's Practice of Medicine, Tyson's Practice of Medicine, Anders' Practice of Medicine, Sahlinger and Kalteyer's Modern Medicine, Hare's Practical Diagnosis, Musser's Clinical Diagnosis, Simon's Clinical Diagnosis, Klemperer's Clinical Diagnosis, Cabot's Clinical Examination of the Blood.

CLINICAL MEDICINE.

GEO. N. ACKER, A.M., M.D.....	<i>Professor of Clinical Medicine</i>
G. WYTHE COOK, M.D.....	<i>Professor of Clinical Medicine</i>
THOS. A. CLAYTOR, M.D.....	<i>Professor of Clinical Medicine</i>
STERLING RUFFIN, M.D.....	<i>Professor of Clinical Medicine</i>
EUGENE LE MERLE, M.D.....	<i>Clinical Instructor in Nervous Diseases</i>
H. C. MACATEE, M.D.....	<i>Clinical Instructor in Medicine</i>
L. H. TAYLOR, M.D.....	<i>Instructor in Clinical Medicine</i>

Clinical Medicine is taught during the third and fourth years. Instruction is given by means of clinical lectures, ward classes, actual bedside work by the students, and conferences at which the cases studied are thoroughly discussed.

The work for the third and fourth years is graded and distinct.

Third year: The class is divided into sections, and weekly each section receives instruction in clinical diagnosis. An amphitheater clinic is given weekly, at which methods of diagnosis and treatment are presented and the use of instruments of precision illustrated and explained.

Fourth year: The class is divided into sections of two students each. These sections, under the direction of instructors, are held responsible for the conduct of the cases assigned them. They are required to obtain the histories, make the physical examination, determine the diagnosis, and institute the treatment; they also make the necessary clinical laboratory examinations.

Weekly conferences are held, at which the cases studied by the sections are presented and discussed under the supervision of the clinical teachers.

Amphitheater clinics are given, at which interesting or unusual cases are presented and explained by the clinical professors.

The clinical instruction is also supplemented by the study and discussion of case histories.

GYNECOLOGY.

J. WESLEY BOVEE, M.D.....	<i>Professor of Gynecology</i>
G. BROWN MILLER, M.D.....	<i>Instructor in Gynecology</i>
A. L. STAVELEY, M.D.....	<i>Professor of Clinical Gynecology</i>
W. A. FRANKLAND, M.D.....	<i>Assistant Instructor in Clinical Gynecology</i>

The subject of Gynecology is taught in the third year in a course of lectures and text-book recitations. In the fourth year the class is taken in sections of one to two students each into the Gynecological Dispensaries for clinical instruction in examinations, diagnosis, and treatment. In larger sections the class attends amphitheater clinics given by the Professors of Gynecology and Clinical Gynecology.

Text-books: Bovée's Practice of Gynecology, Hirst's Diseases of Women.

Collateral reading: Dudley's Gynecology, Penrose's Diseases of Women, Montgomery's Text-book of Gynecology.

NERVOUS DISEASES.

CHARLES H. CLARKE, M.D.....	<i>Clinical Professor of Nervous Diseases</i>
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Lectures and clinics are given upon the more common and important nervous affections. This course is given in the fourth year.

Text-book: Oppenheimer's Nervous Diseases.

LARYNGOLOGY AND OTOTOLOGY.

CHARLES W. RICHARDSON, M.D...	<i>Professor of Laryngology and Otology</i>
O. A. M. McKIMMIE, M.D.....	<i>Clinical Instructor in Laryngology and Otology</i>
H. S. DYE, M.D.....	<i>Clinical Instructor in Laryngology and Otology</i>

This course, given in the fourth year, comprises lectures and clinical instruction on diseases of the nasal passages, pharynx, larynx, and also the ear. Practical demonstrations are given in the use of the laryngoscope and other instruments required in these special branches.

Text-books: Kyle's Diseases of the Nose and Throat, Dench's Diseases of the Ear.

OPHTHALMOLOGY.

W. K. BUTLER, M.D.....*Professor of Ophthalmology*

A course of lectures on this subject is given in the fourth year. The chief object of the course is to direct attention to the elementary principles of the subject. It is not intended to qualify the student as a specialist. This course is supplemented by clinical instruction.

Text-book: May's Diseases of the Eye.

DERMATOLOGY.

H. C. YARROW, M.D.....*Professor of Dermatology*

R. B. CARMICHAEL, M.D.....*Clinical Professor of Dermatology*

The lectures on this subject are illustrated by diagrams, models, photographic illustrations of disease from life, and also by the exhibition of cases. In connection with the course clinical instruction is given. This subject is taught in the fourth year.

Text-book: Jackson's Diseases of the Skin.

MENTAL DISEASES.

WILLIAM A. WHITE, M.D.....*Professor of Mental Diseases*

A series of lectures and clinics is given upon the subject of insanity in its varied forms. This course is given in the fourth year.

Text-book: Kraepelin's Clinical Psychiatry.

Collateral reading: Paton's Psychiatry.

MEDICAL JURISPRUDENCE.

W. C. WOODWARD, M.D.....*Professor of Medical Jurisprudence*

This course is given in the third year, and is designed to familiarize students with the rights and obligations of physicians, both legal and ethical, and to qualify them to apply the facts of medical science to the solution of problems in law.

Text-book: Reese's Medical Jurisprudence and Toxicology.

PEDIATRICS.

GEORGE N. ACKER, A.M., M.D.....*Professor of Pediatrics*

In the fourth year didactic and clinical lectures are given upon diseases of infants and children and the importance of the proper management of these diseases by diet and hygiene.

Text-book: Holt's Diseases of Infants and Children.

MORBID ANATOMY.

I. W. BLACKBURN, M.D.....*Professor of Morbid Anatomy*

The instruction in this course will be mainly practical, consisting of post-mortem examinations, demonstrations, and illustrative lectures pertaining to the subjects of morbid anatomy and special pathology. Especial attention will be paid to the study of the gross pathology of diseases of the brain and nervous system. Instruction in the technique of post-mortem examinations for scientific purposes and in medico-legal cases will be a feature of the course. This course will be given during the fourth year.

EXAMINATIONS.

Examinations are held at the end of the course in each subject, and a general examination at the end of the graduating year. Students failing in examination in one major subject or not more than two minor subjects will be permitted to be re-examined at the beginning of the next regular examination period. Students failing in re-examination in a major subject must repeat the subjects in which they do not attain a grade of 80 or more. Students failing to appear at the regular examinations will not be examined until the next regular examination, except by special permission of the Faculty, and in this event an extra fee of \$5.00 will be charged. Students failing to pass satisfactorily their practical laboratory examinations will be required to repeat the laboratory courses and pay the regular laboratory fees. Students will not be admitted to examination unless they have paid all fees due at the time or present a permit signed by the Assistant Treasurer. The fall re-examinations for 1905-06 will be held in the Medical Building, September 19, 1905. In order to avail themselves of the privilege of this re-examination students must file their applications with the Dean not later than September 1, 1905.

To be eligible for graduation the student must pass all examinations.

In addition to the foregoing examinations students are required: to dissect satisfactorily one lateral half of the cadaver; to report satisfactorily an analysis of a specimen of urine and a clinical examination of a specimen of blood; to examine and report upon six clinical cases in general medicine and two cases in surgery; to perform satisfactorily two major surgical operations upon the cadaver; to work not less than two weeks in the Dispensary Service of the University or other hospitals; to work not less than two weeks in

the Clinical Laboratory of the University or of some other hospital approved by the Dean; to take charge of one or more obstetrical cases and to report thereon; to examine and report on one case in either ophthalmology, laryngology, otology, dermatology, or orthopedics; to report upon one case in gynecology.

Examinations are written, oral, and practical so far as the nature of the subject permits. The time allowed for written examinations is as follows:

Two hours each for Anatomy, Physiology, Chemistry, Materia Medica and Therapeutics, Histology, Pathology, Bacteriology, Practice, Obstetrics, and Surgery; one hour each for Gynecology, Hygiene, Dermatology, Ophthalmology, Pediatrics, Minor Surgery, Orthopedics, Mental Diseases, Medical Jurisprudence, Nervous Diseases, Otology, Laryngology, and Morbid Anatomy.

For oral examinations such time is allowed as the examiner deems sufficient to test the attainments of the student. For practical examinations in the laboratories one hour is given to each subject.

Examinations are marked upon a scale of 100. A grade of 70 is required to pass an examination.

Every student repeating a year will be required to pay one-half the tuition fee of the academic year. Laboratory fees are required for each year in which laboratory work is done.

Students do not receive their numerical grades, but are notified that they have attained grades A, B, C, D, E, or F, as the case may be. A signifies 96 to 100; B signifies 90 to 95; C signifies 80 to 89; D signifies 70 to 79; E signifies failure; F signifies failed to appear for examination.

REQUIREMENTS FOR DEGREES.

Every candidate for the degree of Doctor of Medicine must be at least twenty-one years of age and of reputable character. He must have complied with the admission examination and other requirements herein set forth. He must file with the Dean, at least 30 days before the dates fixed for conferring of degrees, a notice of his intention to appear for graduation, and he must be present at the time specified for examination, and also at Commencement or Convocation. The degree is not conferred in the absence of a candidate except by special consent of the President's Council. Graduates of other accredited colleges must spend one year in residence at this school, and must pass satisfactory examinations in all subjects in order to receive a diploma.

Candidates who in their work and examinations attain general averages of 80 or more will be presented to the Faculty for consid-

eration with reference to being designated as "having graduated with distinction." If in the opinion of the Faculty such candidates have shown themselves to be possessed of more than ordinary merit, they will have inscribed upon their diplomas beneath their degree the words "with distinction," and the names of such graduates will be distinctively printed at the head of the list of graduates of the year.

Candidates who have completed their courses, but have not passed their final examinations, may take the fall or the winter re-examinations upon payment of a fee of \$10, and, if successful, receive their diplomas at the Winter Convocation upon the payment of the diploma fee.

A student who has failed of graduation after repeating his final year will not be permitted to maintain his connection with the school.

COURSES IN ARTS AND SCIENCES.

Students taking a full course for the degree of Doctor of Medicine may, if otherwise qualified, be admitted without additional fee, except laboratory fees, to courses in the Department of Arts and Sciences, provided such courses do not exceed in the aggregate six hours a week.

SCHOLARSHIPS.

Applications for scholarships should be filed with the Registrar of the University not later than September 15. Students holding scholarships pay the matriculation, library, laboratory, and graduation fees, and make the deposit to cover breakage. Holders of scholarships must also maintain a satisfactory scholastic average.

CORCORAN SCHOLARSHIPS.—In recognition of the liberality of the late W. W. Corcoran, the University has established in this department six free scholarships.

Two of these scholarships are open for competitive examination to the graduates of the several high schools and the manual training school of the District of Columbia. These two scholarships are awarded to the two students whose averages are highest.

Two of the scholarships are open for competitive examination to graduates of any reputable high school or college who shall give satisfactory written evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two graduates whose averages are highest.

The remaining two scholarships are open for competitive examination to students who, though not graduates of any high school or college, give satisfactory evidence that they are fitted by previous education for the study of medicine, and at the same time give satisfactory written

evidence of pecuniary inability and certificates of good moral character and industry. These two scholarships are awarded to the two students whose averages are highest.

In establishing these averages professional aptitude and general qualifications are considered along with scholastic ability.

MEDICAL MISSIONARY SCHOLARSHIPS.—Two Medical Missionary Scholarships will be given to such applicants as are judged by the President of the University best qualified to enter upon the study of medicine for the purpose of becoming medical missionaries. These scholarships are awarded for one year only, but they may be renewed.

PRIZES.

A general examination prize of \$50 is annually awarded to the candidate for graduation who attains the highest average grade in all subjects.

Professor H. C. Yarrow gives a prize for the best examination in Dermatology.

Professor Charles W. Richardson gives a prize for the best examination in Laryngology and Otology.

Professor Acker gives a prize for the best examination in Pediatrics.

Professor Butler gives a prize for the best examination in Ophthalmology.

HOSPITAL APPOINTMENTS.

Three interns are annually appointed in the University Hospital. They are appointed from graduates who have served as externs. Seven externs are also appointed from graduates and from the fourth-year class. In making these appointments scholastic standing and general efficiency and aptitude are considered. Appointments to similar positions are open to the graduates and undergraduates of this school in the following other hospitals of the city: Garfield Memorial Hospital, Emergency Hospital, Columbia Hospital for Women, Casualty Hospital, Providence Hospital, Washington Asylum Hospital, Children's Hospital, Episcopal Eye, Ear, Throat, and Nose Hospital.

CLINICAL FACILITIES.

The following hospitals are open to the students of this school for clinical study:

UNIVERSITY HOSPITAL.—This hospital is a part of the educational equipment of this University, and is intended to be used primarily in

instructing the students in clinical medicine and surgery. It has also in connection with it an out-patient or dispensary service in all departments.

Garfield Memorial Hospital.—This institution has 118 charity beds. Clinics are given regularly throughout the session by members of the Faculty connected with the visiting staff of the hospital. There is also an out-patient department, giving good opportunities for experience in the practice of physical diagnosis.

Children's Hospital.—Regular clinical instruction is given in the medical and surgical wards by members of the Faculty on the visiting staff of the hospital. This institution has 100 charity beds. There is also a large out-patient department.

Emergency Hospital and Central Dispensary.—This hospital has 36 charity beds, and has a very large out-patient service. The large emergency service gives exceptional facilities in clinical surgery. Several members of the Faculty are on its visiting and dispensary staffs and give clinical instruction to the students.

Columbia Hospital for Women.—This hospital has 68 charity beds for diseases peculiar to women and 50 charity maternity beds. Members of the Faculty are connected with its service and use its facilities for clinical instruction.

Providence Hospital.—This institution has a large charity service—100 beds for medical and surgical cases and 130 maternity beds.

The Government Hospital for the Insane.—This hospital is maintained by the United States Government. It has 2,500 beds. Clinical instruction in mental diseases is given by the superintendent of the hospital, who is a member of the Faculty of this school.

Episcopal Eye, Ear, Throat, and Nose Hospital.—Excellent opportunities for clinical instruction in ophthalmology, otology, laryngology, and rhinology are offered by this hospital. Members of the Faculty are on its staff.

Lutheran Eye and Ear Dispensary.—This dispensary affords good opportunities for clinical study of diseases of the eye, ear, throat, and nose. Clinical instruction is given by a member of the Faculty.

Casualty Hospital.—Opportunities in emergency and dispensary work are afforded by this institution.

LOCATION OF HOSPITALS.

UNIVERSITY HOSPITAL, H street between Thirteenth and Fourteenth streets, northwest, and adjacent to the Medical Building. Visiting staff: Members of the Faculty of the Department of Medicine.

Garfield Memorial Hospital, Florida avenue and Tenth street, northwest. Members of the Faculty on the visiting staff:

Professor Claytor, Clinical Medicine; Professor Cook, Clinical Medicine; Professor Thompson, Clinical Surgery; Professor Staveley, Clinical Gynecology; Professor Carmichael, Clinical Dermatology; Professor Butler, Clinical Ophthalmology; Professor Hagner, Clinical Genito-Urinary Surgery; Professor Snyder, Clinical Surgery.

Children's Hospital, W street between Twelfth and Thirteenth streets, northwest. Members of the Faculty on the visiting staff:

Professor Thompson, Clinical Surgery; Professor Acker, Clinical Medicine.

Emergency Hospital and Central Dispensary, Fifteenth street and Ohio avenue, northwest. Members of the Faculty on the visiting staff:

Professor Carr, Clinical Surgery; Professor Hagner, Clinical Genito-Urinary Diseases; Dr. Jackson, Clinical Surgery; Dr. Macatee, Clinical Medicine; Professor Carmichael, Clinical Dermatology; Dr. Miller, Clinical Gynecology; Dr. Le Merle, Clinical Nervous Diseases.

Columbia Hospital for Women, Twenty-fifth street and Pennsylvania avenue, northwest. Members of the Faculty on the visiting staff:

Professor Bovee, Clinical Gynecology; Professor Cabell and Professor Morse, Clinical Obstetrics.

Providence Hospital, Second and D streets, southeast. Members of the Faculty on the visiting staff:

Professor Bovee, Clinical Gynecology; Professor Shute, Clinical Ophthalmology.

Episcopal Eye, Ear, Throat, and Nose Hospital, Fifteenth street between L and M streets, northwest. Members of the Faculty on the visiting staff:

Professor Richardson, Clinical Otology and Laryngology; Dr. McKimmie and Dr. Dye, Clinical Otology and Laryngology.

Lutheran Dispensary, Fourteenth and N streets, northwest. Member of the Faculty on the visiting staff:

Professor Butler, Clinical Ophthalmology.

Government Hospital for Insane, Anacostia, D. C. Members of the Faculty on the visiting staff:

Professor White, Mental Diseases; Professor Clarke, Nervous Diseases.

Casualty Hospital, Massachusetts avenue, northeast. Members of the Faculty on the visiting staff:

Professor Wellington, Clinical Surgery; Dr. Frankland, Clinical Gynecology; Dr. Noble P. Barnes, Clinical Medicine.

LABORATORIES.

The different laboratories of the Department are all modern and equipped with the necessary apparatus for thorough work.

PATHOLOGICAL MUSEUM.

A great many valuable and interesting specimens are contained in the Pathological Museum of this school. Their number is increased by additions from time to time. These specimens are particularly valuable to the students as illustrating the changes produced by disease.

OTHER MUSEUMS.

The Army Medical Museum affords an unrivaled opportunity for studying the conditions met with in military surgery. It contains on exhibition a collection of anatomical and pathological specimens unequaled by any other museum. Other Government museums are the Museum of Hygiene, in connection with the Medical Department of the Navy. The National Museum contains the most complete and best arranged collection of *materia medica* in the world. The drugs are shown in all their processes of manufacture. The Botanic Gardens, the Smithsonian Institution, the Fish Commission, the Department of Agriculture all afford opportunities for study both in medicine and its collateral sciences.

THE MEDICAL DEPARTMENT LIBRARY.

The Medical Library is open for study and consultation from 9 a. m. to 10.30 p. m. It contains at present more than 1,400 volumes, and provision is made in the annual library fee charged every student to add to it as published the important new works on medicine. As the library stands at present, it is an excellent working collection for the medical student.

OTHER LIBRARIES.

Washington contains the Library of the Surgeon General's office of the United States Army, the most complete medical library in the world. This library, as all other libraries of the Government, is open to the public between the hours of 9 a. m. and 4.30 p. m. There is also the Library of Congress and the many excellent libraries of the various other Government offices.

FEES AND CONTINGENT EXPENSES.

- | | |
|--|--------|
| 1. Matriculation fee (payable only on first entry into the University) | \$5.00 |
| 2. Library fee per annum..... | 2.00 |
| 3. Tuition fee per annum, including all charges for materials | 150.00 |
| 4. Fee for graduation..... | 10.00 |

A deposit of \$5 per annum is required of every student to cover loss, breakage, or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.

5. Tuition fees per annum for special courses are noted on page 137, paragraph 6.

In addition to the tuition fees for special laboratory courses a charge will be made for materials used.

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|---|-------|
| 6. Tuition fee per annum for any year repeated once, or for a fifth year..... | 75.00 |
|---|-------|

In addition to the tuition for a repeat year a charge will be made for materials used in laboratory courses repeated.

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|---|------|
| 7. Fee for a certificate under the seal of the University.... | 2.00 |
|---|------|
8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes, and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.

No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session, when such withdrawal shall be approved. Applications for the granting of a withdrawal

should be made on the prescribed form to be obtained from the Registrar, and will be received only at the end of a quarter session.

Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rates:

Microscope for Histological Laboratory use.....	\$3.00
Microscope for Bacteriological, Pathological, and Clinical Microscopy Laboratory use.....	5.00

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library and laboratory fees are payable in full, in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University buildings for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto, or in connection with any other matters looking to the comfort of students seeking a residence in the city of Washington.

For catalogues, application blanks and further information address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

DEPARTMENT OF MEDICINE.

II. FACULTY OF DENTISTRY.

CHARLES WILLIS NEEDHAM, LL.D.....	PRESIDENT OF THE UNIVERSITY
J. HALL LEWIS, D.D.S.....	Dean and Professor of Dental Prosthetics
HENRY C. THOMPSON, D.D.S.....	Professor of Operative Dentistry
D. KERFOOT SHUTE, A.B., M.D.....	Professor of Anatomy
WILLIAM P. CARR, M.D.....	Professor of Physiology
CHARLES E. MUNROE, Ph.D.....	Professor of Chemistry
THOMAS A. CLAYTOR, M.D.....	Professor of Materia Medica and Therapeutics
JONATHAN R. HAGAN, D.D.S.....	Professor of Oral Surgery
JOHN B. NICHOLS, M.D.....	Professor of Histology
JAMES CARROLL, M.D.....	Professor of Bacteriology and Pathology
J. ROLAND WALTON, D.D.S.....	Professor of Prosthetic Technics
J. H. P. BENSON, D.D.S.....	Professor of Operative Technics
E. G. SEIBERT, M.D.....	Assistant Professor of Chemistry
W. F. R. PHILLIPS, M.D.....	Assistant Professor of Practical Anatomy
WILLIAM H. TRAIL, D.D.S.....	Assistant Professor of Materia Medica
D. WEBSTER PRENTISS, M.D.....	Assistant Professor of Histology
L. H. TAYLOR, M.D.....	Assistant Professor of Physiology
NOBLE P. BARNES, M.D.....	Lecturer on Materia Medica
S. H. GREENE, JR., M.D.....	Instructor in Anatomy
J. L. RIGGLES, M.D.....	Instructor in Anatomy
GEORGE M. RUFFIN, M.D.....	Instructor in Anatomy
OTIS D. SWETT, B.S.....	Instructor in Chemistry
HARRY H. DONNALLY, M.D.....	Assistant Instructor in Bacteriology
CHARLES BASSETT, D.D.S.....	Demonstrator in Charge of the Dental Infirmary
HURON W. LAWSON, M.D.....	Assistant Demonstrator of Anatomy
GEORGE B. HEINECKE, M.D.....	Assistant Demonstrator of Anatomy
VIRGIL B. JACKSON, M.D.....	Assistant Demonstrator of Anatomy
EDWARD ELLIOTT RICHARDSON, M.S., M.D.....	Assistant Demonstrator of Anatomy
W. A. FRANKLAND, M.D.....	Assistant Demonstrator of Anatomy
R. M. LITTLE, M.D.....	Assistant Demonstrator of Anatomy
JOSEPH D. RODGERS, M.D.....	Assistant Demonstrator of Anatomy
ELMER SLAYTON NEWTON, B.A., M.D.....	Assistant in Chemistry
ARTHUR N. TASKER, B.A.....	Assistant in Chemistry

C. L. DAVIS, M.D.....	Assistant Instructor in Histology
HENRY M. JEWETT, M.D.....	Assistant Instructor in Histology
CHARLES L. BOVEE, D.D.S.....	Demonstrator in the Dental Infirmary
CADMUS LINDEN ODOR, D.D.S.....	Demonstrator of Operative Technics
JOSEPH WOOD POLLOCK, D.D.S.....	Assistant Demonstrator in the Infirmary
ARTHUR MILLARD TRIVETT, D.D.S.....	Assistant Demonstrator in the Infirmary
THOMAS R. WILKERSON, D.D.S.....	Assistant Demonstrator in the Infirmary

GENERAL STATEMENT.

The first course of lectures in the Dental School began November, 1887, under the title of "The Columbian University Dental Department." The course then extended over two years of five months each. Two years later the course was extended to seven months; but, this additional time being found inadequate to keep pace with the ever increasing demand for higher dental education, the course was gradually increased, until now it extends over three years of eight months each.

The academic year begins on the last Wednesday in September and ends on the first Wednesday in June. The next session will begin September 26, 1906, and end June 7, 1907. Students should register promptly at the office of the Registrar at the beginning of the session, and no student can be received and credited with a full term after ten days from the first lecture. Final examinations are held at the conclusion of the instruction in each subject. The degrees are conferred at Commencement, the first Wednesday in June, and at the Winter Convocation, February 22. For further information communicate with the Dean of the Dental Department or the Registrar of the University.

ADMISSION.

Candidates for matriculation must show that they are fitted by previous education to study dentistry. For this purpose they must present a satisfactory certificate of their attainments from an approved school or college, or they must pass an examination.

Candidates are admitted without examination:

(1) Upon presenting a diploma or certificate of a reputable college conferring on them the degree of A.B. or B.S., or an equivalent degree in the arts and sciences.

(2) Upon presenting a diploma or certificate of graduation from a high school, academy, or preparatory school approved by the University as maintaining an adequate standard.

(3) Upon presenting a certificate of admission to the freshman class of an approved college.

(4) Upon presenting a dental student's certificate issued by a State board.

(5) Upon presenting a certificate of admission to another dental school approved by the University as maintaining an adequate standard.

Candidates unable to comply with the foregoing requirements are admitted upon passing an examination based upon the general requirement for admission to colleges, which is a four-year high-school course, or its equivalent, modified to meet the regulations of State Dental Boards. This examination comprises subjects selected from the annexed list equal to 15 units. For admission to the regular course in Dentistry eight (8) of the 15 units are required in the following subjects.

	Units.
English	3
Mathematics	3
Physics	1
Latin	1
<hr/>	
Total	8

The other 7 units may be selected from the other subjects. A unit is considered the equivalent of one year's high-school work in a subject.

LIST OF SUBJECTS.

English:	Units.
(a) Grammar	1
(b) Rhetoric and Composition.....	1
(c) Literature—a knowledge of the form, subject-matter, and literary history of prescribed works is required.....	1

The following are the works prescribed for 1906-07: Burke's Speech on Conciliation, Macaulay's Essay on Addison, Macaulay's Essay on Milton, Milton's L'Allegro, Il Penseroso, Comus, and Lycidas; Shakespeare's Macbeth. Equivalent reading may be offered.

Latin:

(a) Elementary Grammar	1
(b) Cæsar's Commentaries, Books I-IV.....	1

Greek:

- | | |
|------------------------------|---|
| (a) Elementary Grammar | I |
| (b) Xenophon or Homer | I |

Modern Languages:

- | | |
|--|---|
| (a) French, translation of easy prose..... | I |
| (b) German, translation of easy prose..... | I |

History:

- | | |
|----------------------|---|
| United States | I |
| English | I |
| Greek and Roman..... | I |
| General | I |

Mathematics:

- | | |
|--------------------------------------|----|
| (a) Algebra through quadratics | I½ |
| (b) Plane Geometry | I |
| (c) Plane Trigonometry | ½ |

Sciences:

- | | |
|--------------------------|---|
| Physics | I |
| Chemistry | I |
| Astronomy | ½ |
| Biology | I |
| Geology | ½ |
| Botany | I |
| Physical Geography | ½ |
| Physiology | ½ |

The scope of the different subjects is indicated in standard high-school text-books.

Candidates may offer other subjects than those stated in the foregoing list of subjects, and if they are acceptable examinations will be arranged. A candidate may offer certificates of an approved school for work done in any of the foregoing subjects, and will be credited with the units represented by such work. A candidate failing to pass in two of the subjects of his examination may be admitted to the first year upon the condition that he make up the deficiency before entering the Second-year Class. The examinations are conducted by examiners appointed by the Superintendent of Schools of the District of Columbia.

The examinations for admission will be held in June and September, at the Dental Department. An applicant deficient in either Latin or Physics, or both, may be admitted to the First-year Class conditioned in those subjects, but such conditions must be made up during the first year.

COURSE OF INSTRUCTION.

The course of instruction extends through three years of eight months each. The subjects taught during the course are divided as follows:

First year.	Second year.	Third year.
Anatomy.	Operative Dentistry.	Operative Dentistry.
Physiology.	Prosthetic Dentistry.	Prosthetic Dentistry.
Chemistry.	Pathology.	Oral Surgery.
Histology.	Materia Medica.	Orthodontia Technics.
Operative Technics.	Therapeutics.	Operative Technics.
Prosthetic Technics.	Operative Technics.	Prosthetic Technics.
	Prosthetic Technics.	Infirmiry Practice.
	Infirmiry Practice.	Bacteriology.
		Dental Therapeutics.

These studies are further described in the following pages.

PROSTHETIC DENTISTRY AND METALLURGY.

J. HALL LEWIS, D.D.S. *Professor*

In this subject the principles involved in the construction of artificial substitutes are exhaustively considered and the lectures supplemented by practical demonstrations of the subjects mentioned. In addition to the more commonly used vegetable bases for artificial teeth, the use of gold, silver, and platinum is thoroughly taught, and bridge work and the construction of appliances for correcting oral irregularities, etc., are carefully considered. The modes of preparation, properties, etc., of the metals and alloys of particular interest to the dentist receive special attention.

The instruction is thoroughly practical, with the purpose of preparing the student for the actual every-day practice of prosthetic dentistry.

OPERATIVE DENTISTRY, DENTAL ANATOMY AND PATHOLOGY.

HENRY C. THOMPSON, D.D.S.....*Professor*

This course embraces lectures on the special anatomy and physiology of the teeth. The origin, growth, and eruption of the teeth receive minute attention, and are illustrated as their importance demands.

The methods of treating, filling, and extracting teeth receive attention in the lecture-room, and are demonstrated clinically by proficient operators. Extended consideration is given to dental pathology and therapeutics.

CHEMISTRY.

CHARLES E. MUNROE, Ph.D.....*Professor*

E. G. SEIBERT, M.D.....*Assistant Professor*

OTIS D. SWETT, B.S.....*Instructor*

ELMER S. NEWTON, B.A., M.D.....*Assistant*

ARTHUR N. TASKER, B.A.....*Assistant*

The instruction in this subject embraces:

A short discussion of the principles of Physics in their relation to Chemistry, the principles of chemical philosophy, and the laws of chemical combination.

A study of the elements, metallic and non-metallic; the preparation, properties, and reaction of their different compounds and their application in dentistry; Organic Chemistry, with special attention to those organic compounds that are of practical use; laboratory instruction in the determination of acids and bases, analyses of alloys, etc.

PHYSIOLOGY.

W. P. CARR, M.D.....*Professor*

L. H. TAYLOR, M.D.....*Assistant Professor*

The subject is fully covered the first year by a course of lectures, and these lectures are so illustrated by modern diagrams, models, and experiments as to make them clear in detail. Emphasis is given to principles that have a known practical value.

MATERIA MEDICA AND THERAPEUTICS.

THOMAS A. CLAYTOR, M.D.....	<i>Professor</i>
WM. H. TRAIL, D.D.S.....	<i>Assistant Professor</i>
NOBLE P. BARNES, M.D.....	<i>Lecturer on Materia Medica</i>

Instruction in this subject extends through the first two years, and embraces:

The study of crude drugs and their preparations and the art of prescribing; the physiological action of drugs in the human system; the practical application of drugs and other therapeutical agencies to the prevention and cure of diseases and the relief of suffering, together with their antidotal relations to poisons.

The subject is taught by means of lectures, recitations, and black-board illustrations, and is made practical to as great a degree as is compatible with a sufficiently thorough understanding of its principles.

In connection with this chair is a pharmaceutical laboratory, well equipped with modern appliances, in which are taught the making of typical preparations of the Pharmacopœia, prescription writing, and the compounding of prescriptions.

ANATOMY.

D. KERFOOT SHUTE, A.B., M.D.....	<i>Professor</i>
W. F. R. PHILLIPS, M.D.....	<i>Assistant Professor</i>
GEO. B. HEINECKE, M.D.....	<i>Assistant Demonstrator</i>
VIRGIL B. JACKSON, M.D.....	<i>Assistant Demonstrator</i>
E. E. RICHARDSON, M.D., M.S.....	<i>Assistant Demonstrator</i>
W. A. FRANKLAND, M.D.....	<i>Assistant Demonstrator</i>
S. H. GREENE, JR., M.D.....	<i>Instructor</i>
J. L. RIGGLES, M.D.....	<i>Instructor</i>
R. M. LITTLE, M.D.....	<i>Assistant Demonstrator</i>
GEO. M. RUFFIN, M.D.....	<i>Instructor</i>
JOSEPH D. RODGERS, M.D.....	<i>Assistant Demonstrator</i>

The instruction in Anatomy is given in a graded course of lectures, recitations from prescribed text-books, and especially by practical work in the dissection of the cadaver. The lectures are illustrated by the use of dry and wet dissections of the cadaver, by models, diagrams, charts, and sciopicon views.

Practical work in osteology and in dissection of the head are of fundamental importance. For the study of these subjects the class is divided into sections in order to make the instruction as practical as possible. The bones of the skeleton are placed in each student's hands, and he is instructed and quizzed upon all their important features.

ORAL SURGERY.

J. R. HAGAN, D.D.S.....*Professor*

This subject includes lectures on general surgery, surgical bacteriology, inflammations, abscess, gangrene and necrosis, the reduction of luxations and fractures and all the latest appliances for their proper retention; diagnosis and treatment of the maxillary sinus, plastic operations for correction of cleft palate and hare lip, treatment of wounds, shock and collapse; also the origin, classification, growth and removal of tumors of the face, mouth and jaw.

HISTOLOGY.

JOHN B. NICHOLS, M.D.....*Professor*
 D. WEBSTER PRENTISS, M.D.....*Assistant Professor*
 HENRY M. JEWETT, M.D.....*Assistant Instructor*
 C. L. DAVIS, M.D.....*Assistant Instructor*

The course in Histology consists in a systematic presentation of the subject of the minute anatomy of the various parts of the body, especial attention being devoted to the histology of the teeth and neighboring structures. The subject is presented partly by systematic lectures, and more especially by the practical study by the individual students of actual specimens under the microscope. The methods of preparation of microscopical specimens are presented and practiced in the laboratory. The projection microscope, affording valuable aid in illustrating and presenting the subject, is constantly used.

BACTERIOLOGY.

JAMES CARROLL, M.D.....*Professor*
 HARRY H. DONNALLY, M.D.....*Assistant Instructor*

The course begins with a consideration of the principles involved in the process of sterilization by dry and moist heat, the relative value and mode of application of each, and an explanation of the construction of the apparatus employed for the purpose. The use and construction of the thermostat is taken up at the same time and the student taught how he can dispense with these costly appliances in emergencies.

The composition and modes of preparation of the various nutritive media are next considered, working formulas given, and the students required to prepare them at least once in the laboratory.

This is followed by a discussion of bacteria as a class, their position in the biological world, their classification, distribution, and the general and special characters that belong to them.

After this preparatory training the various methods in use for the isolation and study of bacteria are taught by practical demonstration and practiced by the students, after which the most important pyrogenic organisms are studied in detail, giving special attention to those found in the nasal and oral cavities.

The aim of the course is chiefly to afford the students an opportunity to become practically familiar with bacteriological working methods, and to enable them to isolate and identify the bacteria present in suppurative processes, as well as to comprehend intelligently the references to micro-organisms in the current professional literature of the day.

OPERATIVE TECHNICS.

J. H. P. BENSON, D.D.S.....	<i>Professor</i>
CADMUS L. ODOR, D.D.S.....	<i>Assistant</i>

This subject is taught by lectures, illustrated by enlarged models and drawings, together with demonstrations of instruments and materials. The students perform exercises in manipulative procedure under the direction of the instructors.

The subjects embraced in the course consist, first, of the study of dental nomenclature, that the student may acquire an understanding of the technical terms used in the course of his dental studies. This is followed by descriptive dental anatomy and the forms and surface markings of each tooth studied, the natural teeth, as well as enlarged models and drawings, being used for the purpose. Each student is required to make various sections of the teeth for the thorough study of the pulp chambers and root canals and their relations to the external surfaces of the teeth.

That tooth-forms may be more perfectly impressed upon the mind of the students, each one is required to carve a tooth of the several classes, as incisor, cuspid, bicuspid, and molar, in bone or artificial ivory, representing the actual form and size of the natural organ. Cavities are classified and illustrated by drawings and models, followed by their preparation and filling in technic forms by the student. Treating and filling root canals is given full attention, the students performing operations of this kind upon natural teeth mounted for the purpose.

All work, in its relation to operative dentistry, is given the necessary consideration to fit the student for meeting, as far as possible.

the actual requirements of the infirmary. The operations in the technic department require a large number of natural teeth and a sufficient supply is difficult to obtain. It will therefore be to the interest of students if they will bring with them all the extracted teeth they can procure.

ORTHODONTIA.

J. ROLAND WALTON, D.D.S.....*Professor*
CHARLES BASSETT, D.D.S.....*Instructor*

Orthodontia is taught by lectures and practical work in the Infirmary.

Junior year Orthodontia is a technical course with such lectures and demonstrations as will enable the student to perform the Infirmary work. The senior year is a review of the junior studies with advanced lectures upon the irregularities of the teeth, local and constitutional. Each student is required to make a number of appliances upon models and practically correct cases of irregularity.

CROWN AND BRIDGE WORK.

CHARLES L. BOVEE, D.D.S.....*Instructor Senior Class*
ALLEN S. WOLFE, D.D.S.....*Instructor Junior Class*
FREDERICK I. BARTLETT, D.D.S.....*Instructor Freshman Class*

Instruction in this course is systematically given by lectures and clinics. The course in technique extends through the freshman, junior and senior years.

PROSTHETIC TECHNICS.

CHARLES L. BOVEE, D.D.S.....*Instructor Senior Year*
ALLEN S. WOLFE, D.D.S.....*Instructor Junior Year*
FREDERICK I. BARTLETT, D.D.S.....*Instructor Freshman Year*

The technic laboratories are thoroughly equipped for their particular work. The course in prosthetic technics extends through the freshman, junior and senior years.

The first year is a technical course. The students are taught the proper equipment of a dental laboratory; the preparation of the mouth for dentures; methods of taking impressions of the mouth and manipulation of the various impression materials; the prepa-

ration and mounting of models; selection and artistic arrangement of teeth; the construction of plastic dentures with general details.

In the junior class the course is a review of the freshman year with extended technical work, embracing a practical course in the swaging of the various metals, as taking impressions, making models and dies, swaging, rimming, attaching teeth by rubber, and in general construction of metal dentures, crown and bridge work.

The senior year is a practical course, embracing the swaging of plates, teeth attached by soldering, clasps, porcelain work, advanced bridge-work, removable bridges, and the detailed construction of all work in prosthetic dentistry.

PORCELAIN WORK.

HOWARD P. COBEY, D.D.S.....*Instructor*

Students are taught the principles and practice of inlay work, porcelain crowns, high and low fusing bodies, the use of the electric and gas furnaces.

THE DENTAL INFIRMARY.

CHARLES BASSETT, D.D.S.....*Demonstrator in Charge*
 CHARLES L. BOVEE, D.D.S.....*Demonstrator*
 JOSEPH WOOD POLLOCK, D.D.S.....*Demonstrator*
 ARTHUR MILLARD TRIVETT, D.D.S.....*Demonstrator*
 THOMAS R. WILKERSON, D.D.S.....*Demonstrator*

The Infirmary is open every week day for nine continuous months (being closed during the months of July, August, and September), during which time an abundance of clinical material is readily available. In fact, as many patients present themselves as can possibly be attended to by the students. It is under the immediate supervision of the Demonstrator in charge, who is present from 1 until 6 o'clock each week day.

TEXT-BOOKS AND WORKS OF REFERENCE.

(The works first named and in *italics* are preferred.)

Anatomy.—*Cunningham's Text-Book of Anatomy*; *Cunningham's Manual of Practical Anatomy*; Dental Anatomy, Black's.

Physiology.—Raymond's Human Physiology.

Chemistry.—*Simon's Chemistry*.

Materia Medica.—*H. C. Wood's Therapeutics*; Hare's Practical Therapeutics; A. A. Stevens' Modern Materia Medica and Therapeutics; Culbreth's Materia Medica and Pharmacy; National Dispensatory.

Prosthetic Dentistry.—*The American Text-Book of Prosthetic Dentistry*; Essig's Dental Metallurgy.

Operative Dentistry.—*Harris' Principles of Practice*; Tome's Dental Anatomy and Surgery; Taft's Operative Dentistry; American System of Dentistry—Litch.

Oral Surgery.—Marshall's Oral Surgery; Grant's Oral Surgery.

Histology.—Nichols, Böhm and Davidoff.

Orthodontia.—Talbot, Irregularities of the Teeth; Angle, Treatment of Malocclusion of the Teeth and Fractures of the Maxillæ; Jackson, Orthodontia.

GRADUATION.

Candidates for graduation must have attended three full courses of lectures, each of eight months duration, and three courses of clinical instruction in this Department, during the regular winter term and in separate years. Students are examined at the end of the regular course upon all subjects taught them during that course. Should the student fail in his examination in course, he may be re-examined in the fall. All fees must be paid and Infirmary requirements complied with before the student may present himself for examination.

Students must enter before, or within ten days after, the opening lecture of the regular course. They may register at any time during the nine months Infirmary course, and thus begin Infirmary practice at once upon payment of twenty-five dollars, which amount will be deducted from their tuition fees for the succeeding regular term.

The candidate for graduation must be examined upon all subjects taught in this Department, and before the examination he must perform operations upon the natural organs in the Infirmary, and present the Museum a well-constructed specimen of dental mechanism made by himself in the dental laboratory of the University.

In addition to the above requirements, the moral character and habits of the candidate, his industry, and diligent attendance will be taken into consideration. Notable negligence, immorality, or habitual absence from the lectures will preclude the candidate from attaining his degree, even though he may have acquired sufficient technical knowledge to pass a creditable examination. This reservation on the part of the Faculty of the right to make good moral character a prerequisite for graduation must not be overlooked.

The student also, during and between the sessions, must comply with the State laws regulating the practice of Dentistry, and act in accordance with the recognized code of ethics of the dental profession.

The degrees are conferred by The George Washington University, incorporated by Act of Congress of the United States.

PRIZES.

FACULTY PRIZE.—A prize will be given by the Faculty to the graduate passing the best examination in all branches and having the best Infirmary record.

COURSES IN ARTS AND SCIENCES.

Students taking a full course for a degree may be admitted without additional fee, except laboratory fees, to courses for which they are qualified, in the Department of Arts and Sciences, the aggregate of such courses not to exceed six hours per week.

LOCATION.

The Dental Building is No. 1325 H Street, N. W. It is within half a square of all lines of street cars going to every part of the city.

The Dean may be seen personally at 1121 Vermont avenue on any week day from 3 to 4 p. m., and also at the Dental Building, 1325 H Street, N. W., on Monday, Wednesday, and Friday of each week at 4 p. m.

FEES AND CONTINGENT EXPENSES.

1. Matriculation fee (payable only on first entry into the University) \$5
2. Library fee per annum 2
3. Tuition fee per annum, including all charges for materials.. 150
 A deposit of \$5 per annum is required of every student to cover loss, breakage or damage to the property of the school. The amount of such deposit paid in excess of the breakage will be returned.
4. Fee for graduation with diploma..... 10

5. Tuition fees per annum for special courses are noted on page 137, paragraph 6. In addition to the tuition fees for special laboratory courses a charge will be made for material used.
6. Tuition fee per annum for any year repeated once..... 75
In addition to the tuition for a repeat year a charge will be made for materials used in laboratory courses repeated.
7. Fee for a certificate under the seal of the University..... 2
8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.
No change will be made in the fees fixed at registration except in case of withdrawal, and then only upon notice in due form and from the end of the current quarter session when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form, to be obtained from the Registrar, and will only be received at the end of a quarter session.
Students are urged to purchase their own microscopes, but those who do not care to do so may rent them from the University at the following rentals:
- Microscope for Histological Laboratory use..... 3
- Microscope for bacteriological, pathological, and clinical microscopy laboratory use..... 5

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Tuition fees are payable quarterly, in advance. Matriculation, library, and laboratory fees are payable in full, in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University buildings for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a re-

duction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto, or in connection with any other matters looking to the comfort of students seeking a residence in the city of Washington.

For catalogues, application blanks, and further information, address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

DEPARTMENT OF LAW AND JURISPRUDENCE.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.,.....	PRESIDENT OF THE UNIVERSITY
WILLIAM REYNOLDS VANCE, Ph.D., LL.B.....	Dean of the Faculty and
	Professor of Law
WILLIAM A. MAURY, LL.D.....	Professor of Law
JOHN M. HARLAN, LL.D.....	Professor of Law
DAVID J. BREWER, LL.D.....	Professor of Law
WILLIAM G. JOHNSON, LL.M.....	Professor of Law
MELVILLE CHURCH, LL.M.....	Professor of the Law of Patents
WALTER C. CLEPHANE, LL.M.....	Professor of Law
EDWIN C. BRANDENBURG, LL.M.....	Professor of Law
ARTHUR PETER, LL.M.....	Professor of Law
HENRY P. BLAIR, LL.M.....	Professor of Law
STANTON J. PEELE, LL.D.....	Professor of Law
JOHN PAUL EARNEST, A.M., LL.M.....	Professor of Law
HANNIS TAYLOR, LL.D.....	Professor of Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....	Professor of Law
GEORGE WINFIELD SCOTT, LL.B., Ph. D.....	Professor of Law
JAMES BROWN SCOTT, M.A., J.U.D.....	Professor of Law
ALFRED NERINCX, LL.D.....	Professor of Law
CARL HAU, M.A., LL.B.....	Assistant Professor of Law
ROBERT M. HUGHES, A.M., LL.B.....	Lecturer on Admiralty Law and
	Procedure
CHARLES H. DUELL, A.B., LL.B....	Lecturer on Substantive Patent Law
JOHN WILMER LATIMER, LL.B.....	Clerk of the Moot Court
OTIS D. SWETT, B.S., LL.M.....	Secretary

GENERAL STATEMENT.

This Department, established in 1865, is the oldest school of law in the city of Washington. Its course of instruction for the degree of Bachelor of Laws, originally requiring but two years, was gradually expanded, until, in 1898, in accordance with the recommendation of the Association of American Law Schools, it was increased to three years. The Faculty has also shown a gradual increase in numbers commensurate with the expansion of the course and the growing number of students in attendance. In June,

1903, the Board of Trustees adopted the policy of putting the fundamental subjects of substantive law in charge of permanent professors, devoting their whole time and energy to the work of the Department.

In 1877 a year of graduate work, leading to the degree of Master of Laws, was added to the course of instruction offered. A special course in Patent Law was added in 1895.

In June, 1898, an ordinance was adopted by the Board of Trustees formally establishing as a separate department of the University the Department of Jurisprudence and Diplomacy. This Department was opened with appropriate ceremonies on November 15, 1898.

In 1904, by the authority of the Board of Trustees, a new adjustment of graduate work in the University was made, resulting in the establishment of the Departments of Law and Jurisprudence, and of Politics and Diplomacy, the former embracing the undergraduate course in municipal law and graduate courses in the broader fields of general law, and the latter certain graduate courses in the realm of political science, special attention being given to diplomacy.

LOCATION.

All classes in both the Department of Law and Jurisprudence and that of Politics and Diplomacy are held in Law Lecture Hall, situated on H street, adjoining the main University building, at the corner of Fifteenth street. This hall, dedicated on January 3, 1899, was especially designed for the work of these Departments. It is commodious and well equipped with lecture-rooms, Moot Court rooms and offices, and contains a large library, with a conference-room adjoining.

ACADEMIC YEAR.

The academic year extends through more than eight months, beginning on the last Wednesday in September and ending on the first Wednesday in June, and is divided into two half-years, the second half-year beginning on the first day of February. Since all courses given during the first half-year are completed before the beginning of the second half-year, it is possible for a student to enter on the 1st of February of any year and be graduated three years from that date, receiving his degree at the Winter Convocation, held on February 22d of each year.

ADMISSION.

I. FOR THE DEGREE OF BACHELOR OF LAWS.

Applicants for admission as candidates for the degree of Bachelor of Laws must be at least eighteen years of age and must have had educational training equivalent to a course in an approved high school. The educational requirement may be satisfied by presentation of certificates or by examinations in the usual high school branches. These examinations will be held September 17-21. All applications for admission should be addressed to the Registrar of the University, who will furnish proper blanks upon request.

Admission Requirements After September First, 1909.—After September 1st, 1909, no student will be admitted to regular standing unless he shall have successfully completed two years of undergraduate work in an approved college. Applicants who have completed a high-school course may, however, at the discretion of the Faculty, be admitted as special students. Such special students may qualify for graduation by showing an average grade during the entire course exceeding the passing grade by twenty per cent.

2. FOR THE DEGREE OF MASTER OF LAWS.

Candidates for the degree of Master of Laws must be at least twenty-one years of age and hold the degree of Bachelor of Laws from an institution of approved standing.

3. FOR THE DEGREE OF MASTER OF PATENT LAW.

Only those students who are graduates of an approved law school or members of the bar in good standing will be admitted as candidates for the degree of Master of Patent Law.

4. FOR THE DEGREE OF DOCTOR OF JURISPRUDENCE.

No student will be admitted as a candidate for the degree of Doctor of Jurisprudence unless he shall hold a baccalaureate degree conferred by some institution of approved standing after the completion of a liberal course of undergraduate academic study, and possess a reading knowledge of Latin, French, and German. At the discretion of the Faculty, however, other languages may be substituted when the character of the work undertaken is such as to warrant it. The right is reserved to the President's Council to decide in all cases whether the applicant has given sufficient evidence that his antecedent training fulfils these requirements. In addition, the candidate must hold the degree of Bachelor of Laws from this University or from some other institution requiring equivalent work as a prerequisite to that degree.

5. SPECIAL STUDENTS.

Persons who for any reason do not qualify as candidates for a degree may, on the recommendation of the Faculty and with the assent of the professors whose courses they elect to take, be admitted as special students. Special students may subsequently be admitted to regular standing in any of the classes upon satisfying the requirements of admission thereto.

ADVANCED STANDING.

Students may be admitted to advanced standing in the second or third year classes upon satisfying the requirements for the work of the preceding year or years. These requirements may be met by presenting certificates from other law schools of accredited standing showing that the student has successfully completed equivalent courses, or by passing the regular examinations set for that purpose at the beginning of the term, after showing that he has pursued a course of study in the subjects upon which he is examined covering at least as many hours as are required for such subjects in this University.

Attorneys in good and regular standing who have been admitted to practice in any State requiring an examination for admission to the bar may be admitted to advanced standing in the second or third year class, at the discretion of the Dean.

All examinations that may be required of applicants for advanced standing are held during the first week of each session.

HOURS FOR LECTURES.

While in former years instruction has been given in the morning hours, yet heretofore the lectures on all required subjects have been held between 4.50 and 6.30 in the afternoon. Beginning with the session of 1906-07, only nine of the fifteen hours that will be given to the first year class will be in the afternoon, the remaining hours being in the forenoon. During the session of 1907-08 the exercises of the second year class will also be held in accordance with the same schedule, which will, during the following session, be extended to the subjects offered to the third year class.

METHOD OF INSTRUCTION.

Instruction is based upon the study and discussion of selected cases, in connection with which assignments may be made from

approved text-books when the nature of the subject is such as to make it advisable. In conducting the discussion of cases in the class-room every effort is made to lead the student to a clear understanding of the fundamental legal principles that may be involved, and to afford him scientific training in accurate methods of study and of reasoning along legal lines. Students are also required to submit written briefs upon doubtful points of law, to draw up contracts, conveyances, and other papers when the nature of the subject in hand is such as to make exercises of this kind useful in giving accurate instruction.

All subjects involving the adjective law are in charge of professors who are also engaged in active practice. The general principles of these subjects, taught in the same manner as indicated above, are developed by practice before the Moot Courts.

UNDERGRADUATE PROFESSIONAL COURSES.

Undergraduate students in Columbian College upon the completion of forty-five units of credit may take the first year's work of the course for Bachelor of Laws, crediting them fifteen units in the College, on the completion of which they may receive the College degree.

COURSES OF INSTRUCTION.

A. LEADING TO THE DEGREE OF BACHELOR OF LAWS.

The course of instruction leading to the degree of Bachelor of Laws extends through a period of three years. A minimum of thirty-six hours' work will be required of all students hereafter entering the Department, students already registered being permitted to qualify for their degrees upon the completion of the courses as heretofore required. These include twelve hours of work each week for the first and second year classes, and ten hours for the third year class. By means of the courses as arranged, it is intended to give to the student such sound training in the fundamental principles of English and American law as will fit him for the practice of the legal profession in any of the States or Territories of the United States.

FIRST YEAR.

First Half-Year.

Contracts. Four hours. Professor VANCE.
Criminal Law. Three hours. Professor EARNEST.
The Law of Persons. Two hours. Professor BLAIR.
Constitutional Law. Two hours. Professor HARLAN.
Property. One hour. Professor VANCE.
Torts. Four hours.

Second Half-Year.

Contracts. Three hours. Professor VANCE.
Criminal Procedure. One hour. Professor EARNEST.
Commercial Paper. Four hours. Professor LORENZEN.
Constitutional Law. Two hours. Professor HARLAN.
Sales. Two hours. Professor BLAIR.
Property. One hour. Professor VANCE.
Agency. Two hours.
Bailments. One hour. Professor PEELE.

SECOND YEAR.

First Half-Year.

Partnership. One hour. Professor PEELE.
Common Law Pleading and Practice. Three hours. Professor JOHNSON.
Private Corporations. Four hours. Professor LORENZEN.
Insurance. One hour. Professor MAURY.
Evidence. Two hours. Professor PETER.
Property. One hour. Professor VANCE.

Second Half-Year.

Evidence. Two hours. Professor PETER.
Property. Four hours. Professor VANCE.
Equity. Two hours. Professor JAMES BROWN SCOTT.
Equity Pleading and Practice. One hour. Professor CLEPHANE.
Suretyship. Two hours.
Damages. One hour.

THIRD YEAR.

First Half-Year.

Property. Two hours. Professor VANCE.

Equity. Two hours. Professor JAMES BROWN SCOTT.

Third-year Moot Courts. Sessions, six hours. Required attendance, two hours. Professors CLEPHANE, EARNEST, and PETER.

Four hours of Electives.

Second Half-Year.

Trusts and Trustees. Two hours.

Federal Procedure. One hour. Professor MAURY.

Organization and Management of Corporations. One hour. Professor CLEPHANE.

Moot Courts. Session, six hours. Required attendance, two hours. Professors CLEPHANE, EARNEST, and PETER.

Four hours of Electives.

Third Year Electives.

Third year students may select from the following elective courses such subjects as, together with the required courses stated above, will make up the required minimum of ten hours a week. Such students are permitted, however, to choose the necessary electives from the courses offered to the fourth year students.

Elections of courses to be taken must be made in all cases within ten days after the beginning of the semester in which such courses are given.

Bankruptcy and Insolvency. Two hours, one-half year. Professor BRANDENBURG.

Wills and Administration. One hour, one-half year. Professor PETER.

International Law. One hour, one year. Professor BREWER.

Conflict of Laws. Two hours, one-half year. Professor LORENZEN.

Public Corporations. Two hours, one-half year. Professor LORENZEN.

Admiralty Law and Procedure. One hour, one-half year. Mr. HUGHES.

B. LEADING TO THE DEGREE OF MASTER OF LAWS.

Students admitted to the fourth year as candidates for the degree of Master of Laws are required to elect courses covering a minimum of ten hours a week. These may be freely elected from the subjects given below, which are considered by the Faculty especially suited

to the needs of students who have already completed an undergraduate course in law. The student may, however, choose as electives any other subjects offered by the Faculty of Law and Jurisprudence which he has not taken and received credit for during his undergraduate course. The practice work offered in the fourth year Moot Courts may be taken and will be counted as two hours of required work.

Fourth Year Subjects.

Railroad Law (including Interstate Commerce). Two hours, one year. Professor NEEDHAM.

International Law. Three hours, one year. Professor JAMES BROWN SCOTT.

Extraordinary Legal Remedies. One hour, one-half year. Professor CLEPHANE.

Spanish-American Law.* Two hours, one year. Professor LORENZEN.

Roman Law. Two hours, one year. Professor HAU.

Administrative Law. Two hours, one-half year. Professor G. W. SCOTT.

Comparative Constitutional Law. Two hours, one-half year. Professor NERINCX.

Origin and Growth of the Constitutional and Common Law of England. Two hours, one year. Professor TAYLOR.

Advanced Procedure. One hour, one-half year. Professor CLEPHANE.

Moot Court. Two hours, one year. Professors CLEPHANE, EARNEST, and PETER.

Waters and Water Rights (including Irrigation). One hour, one-half year.

Land Titles and Statutory Liens. One hour, one year.

Taxation. One hour, one year.

Substantive Patent Law. Five lectures. Judge DUELL.

Legal Authorities and Brief-making. Six lectures. Professor BRANDENBURG.

C. LEADING TO THE DEGREE OF MASTER OF PATENT LAW.

A special course in Patent Law and Patent Law Practice is given by Professor Church. The purpose of this course is to prepare those taking it for practice in all matters involving the law of patents. The course extends throughout one year, with two lectures or sessions of the Moot Court each week.

A special course of lectures on Substantive Patent Law is delivered by Judge Charles H. Duell.

*A reading knowledge of Spanish is required.

D. LEADING TO THE DEGREE OF DOCTOR OF JURISPRUDENCE.

The purpose of these courses is primarily to give to the student a more thorough and comprehensive knowledge of International Law, of the History of Law, and of Comparative Public and Private Law in order that he may attain a sounder and more philosophic understanding of the principles that underlie our own municipal law. The training and knowledge acquired in these courses will prove specially beneficial to those who desire to fit themselves for the foreign service, for the conduct of cases before international tribunals, and for the general practice in matters involving the laws of foreign countries.

Subject to the approval of the Faculty, the student may select his major and minor subjects from the following courses offered:

I. ROMAN LAW:

Offered by Asst. Professor HAU.

1. Introduction to Roman Law.
2. History and Sources of Roman Law Before the Time of Justinian.
3. The Institutes of Gaius and the *Corpus Juris* of Justinian.
4. History of the Law during the Middle Ages.
5. Canon Law.
6. Seminary in Roman Law.

II. THE COMMON LAW OF ENGLAND:

Offered by Professor TAYLOR.

1. Origin and Growth of the Constitutional and Common Law of England.
2. Seminary in the same subject.

III. INTERNATIONAL LAW:

Offered by Professor J. B. SCOTT.

1. International Law.
 2. Seminary in International Law.
- Offered by Professor G. W. SCOTT.
3. International Law of Claims.

IV. CONSTITUTIONAL LAW:

Offered by Professor HARLAN.

1. Constitutional Law.
- Offered by Professor NERINCX.
2. Comparative Constitutional Law.

V. ADMINISTRATIVE LAW:

Offered by Professor G. W. SCOTT.

1. Administrative Law.
2. Comparative Administrative Law.

VI. COMPARATIVE PRIVATE LAW:

Offered by Professor LORENZEN.

1. Comparative Commercial Law. (Not given in 1906-07.)
2. Spanish-American Law.*

ELECTIVE COURSES IN OTHER DEPARTMENTS OF THE UNIVERSITY.

Students taking a full course for a degree may be admitted, without additional fee except laboratory fees, to courses for which they are qualified in the Departments of Arts and Sciences and of Politics and Diplomacy, provided such courses do not exceed in the aggregate six hours a week.

COURSES IN PRACTICE.

A. MOOT COURT WORK.

1. *Third Year:*

Particular stress is laid upon Moot Court work. Aside from the practice court connected with the course in Patent Law, there are four courts in which the candidates for the degree of Bachelor of Laws pursue their work. Three of these are *nisi prius* courts and are presided over by members of the Washington Bar in active practice. The fourth is a Court of Appeals to review the cases tried in the courts of first instance. This court also is composed of members of the Washington Bar.

Every third-year student before receiving the degree of Bachelor of Laws is required to prepare the pleadings in and prosecute to judgment at least four cases in the *nisi prius* courts, with the privilege of appeal to the appellate tribunal. At least two hours in each week during the year must be spent by each third-year student in active participation in Moot Court work in the court-room to which he is assigned.

Statements of facts are furnished, such as would be related to a lawyer in active practice by his client. Each student must deter-

*A reading knowledge of Spanish is required.

mine whether or not upon such facts the particular case in hand is one of common-law or equitable cognizance. He must then frame his pleadings, serve his writs, and answer his adversary's pleadings until issue is joined in legal manner, after which the case is brought on for hearing in strict accordance with the rules of actual practice. Juries are empaneled in accordance with settled legal procedure, witnesses are examined and cross-examined, and the case conducted through all the various stages of the trial or hearing down to and including the judgment or decree, after which, should the case be appealed, it must be carried through the appellate court, involving the preparation of the record on appeal, briefs of counsel, etc.

2. Fourth Year:

The same facilities for Moot Court work as are described above are afforded in the course leading to the degree of Master of Laws. The court, however, is entirely distinct from that provided in the third-year course, and the nature of the cases assigned is somewhat different, involving, in addition to the ordinary cases at common law or in equity, cases of a special character, such as habeas corpus, certiorari, quo warranto, injunction, mandamus, extradition, replevin, attachment, etc.

3. Officers and Equipment:

One of the assistant clerks of the Supreme Court of the District of Columbia is the clerk of the court, but his assistants in each court-room are chosen from the student body, from whose ranks are also drawn the criers, jurors, and other officials, thus giving to the students the benefit of practice in administrative judicial machinery. The Moot Court is to all intents and purposes an actual court. The rooms in which the sessions are held are fitted up with judges' benches, clerks' desks, jury-boxes, and counsel table, and from the time the crier announces that the court is in session until he announces its adjournment the procedure is identical with that of a regular judicial tribunal.

It is believed that any student who gives the proper attention to this feature of the law curriculum will be enabled to go out from this institution and creditably try cases in court, although he may never have been in an actual court-room.

A careful record is kept of the work of each student, both as to his pleadings and his conduct of the case in court, and the ratings thus given determine, in connection with his ratings upon other subjects, whether or not he is entitled to a degree.

B. ADVANCED PROCEDURE.

Every young lawyer entering upon his professional career is desirous of availing himself of the experience of an older practitioner and of learning many things which are not taught and cannot be taught from books. It is to meet the needs of this class of men that this course has been inaugurated. It is in charge of a member of the Washington Bar whose practice has been an active one, extending over a period of sixteen years.

A short introductory talk is given upon the relations between attorney and client, including the important subject of fees, after which the student is given the benefit of practical hints upon the manner of starting in practice and opening and furnishing an office, suggestions as to office systems and the selection of a library, and, incidentally, of the use of authorities in court. Then a drill is given upon contract drafting, involving the preparation by the student of leases, contracts, wills, etc. The students' papers are carefully examined by the instructor and criticised, prevalent errors and the proper manner of curing them being pointed out in the class-room.

The student is told how to listen intelligently to his client's grievances; how to draw up the pleadings arising out of these grievances; how to prepare for trial the case thus made, including the work of preparing the evidence; how to try the case and examine and cross-examine witnesses; the manner of making up the record, writing briefs, and conducting the argument on appeal. The subject of professional ethics is discussed. The course is concluded by a series of talks from a practical standpoint upon affidavits of merit and defense, attachments, replevin, habeas corpus, mandamus, etc. At various times during the year distinguished lawyers are invited to appear and discuss informally special topics of interest to the students.

EXAMINATIONS.**A. UNDERGRADUATE COURSES.***Regular Examinations:*

Written examinations upon all required subjects are held at the close of each semester upon those subjects that have been completed during that semester. All students, unless specially excused by the Dean, are required to take the first examination held in any subject after their completion of the course in that subject.

No student, except by special permission of the Dean, will be allowed to take an examination in any subject unless he shall be regularly registered and have been in regular attendance upon the lec-

tures and have done all the work required in the course of instruction upon that subject.

Conditions:

The regular examinations for the removal of conditions will be held during the first week of each session. Candidates for the degree of Bachelor of Laws who have not more than one condition in the subjects completed during the first semester of the third year may be given examinations for the removal of such conditions during the last week in May.

Class Standing:

Students having conditions in more than two subjects will not be advanced from one class to another. Students may have, however, an opportunity to remove conditions imposed during any academic year by taking the regular examinations for the removal of conditions at the beginning of the following year, for which no fee is charged.

Students having conditions in more than three subjects will not be allowed to register except upon special permission from the Dean.

Special Examinations:

No special examinations, other than those above provided for, will be granted to any students except those of the graduating class who, for good cause, shall have been excused by the Dean from taking any regular examination during the third year.

B. GRADUATE COURSES.

Examinations in graduate courses will be given at such times and under such conditions as may be designated by the professors in charge.

DEGREES.

1. BACHELOR OF LAWS.

The degree of Bachelor of Laws will be conferred upon students who shall have passed satisfactory examinations upon the subjects required in the entire course of three years and whose attendance and conduct have been satisfactory to the Faculty.

2. MASTER OF LAWS.

The degree of Master of Laws will be conferred upon students who have successfully completed the work prescribed for the fourth year and whose attendance and conduct have been satisfactory to the Faculty.

3. MASTER OF PATENT LAW.

The degree of Master of Patent Law will be conferred upon students who shall have successfully completed the work of the Patent Law course and whose attendance and conduct have been satisfactory to the Faculty.

4. DOCTOR OF JURISPRUDENCE.

The degree of Doctor of Jurisprudence is given for graduate work in the science of the law upon the same terms and conditions as the degree of Doctor of Philosophy in the Departments of Arts and Sciences and of Politics and Diplomacy.

The degree is conferred upon students already qualified as candidates for the degree who have pursued advanced legal studies and engaged in original research in some special branch of law under University auspices for a period of not less than three years, two of which shall be in residence, and have submitted an acceptable thesis and met all the requirements prescribed. The degree is given, however, not because of the faithful completion of a course of study according to a stated program for a given length of time, but for high attainments and proved ability to do research work in some special branch of law, as determined by the various tests applied.

The applicant may be credited with graduate work done at other universities, provided that such work is shown to be of grade and nature similar to that required here, but at least one year must be spent in residence at this University, and the other requirements of the degree as prescribed here must be fulfilled.

Every candidate immediately after qualifying for the degree of Doctor of Jurisprudence shall designate one principal or major subject and two subordinate or minor subjects, the selection to be approved by the Faculty. The major subject and at least one of the two minors must be topics taught in the Department of Law and Jurisprudence; the other minor may be chosen from any graduate work in the University properly relative to his major and approved by the Faculty. The major and minors must be pursued under the guidance of a committee consisting of the professors in charge of the subjects chosen, with the professor in the major subject as chairman. This committee shall determine his division of time, study, and research among the major and minor topics, but in general at least one-half of the whole time spent in graduate work should be devoted to the major subject and one-fourth of the time to each of the minor subjects.

The candidate must attend the seminary work in his major subject and take the graduate courses given in his major and minors.

The candidate shall pass satisfactory examinations upon the three subjects selected, which may be taken on the fulfilment of the require-

ments as to residence or at such other times as may be fixed by the committee in charge of such candidate. In his major subject the candidate must show special attainments, and is liable to minute examination upon the whole ground which it covers. He is also expected to have a good general knowledge of the field contained within his two minor subjects.

A satisfactory thesis must be presented by the candidate, together with an exhaustive bibliography, exhibiting independent research in some branch of his major subject, not later than January 15 or May 1 in the year in which the degree is sought, according as he proposes to be graduated at the Winter Convocation or at Commencement.

After their acceptance theses are the property of the University, and must be deposited in the University archives, but authors are permitted to make copies. All theses must be typewritten on official thesis paper, which may be obtained from the Assistant Treasurer of the University.

No thesis for the degree of Doctor of Jurisprudence shall be submitted to the Faculty until it has been approved by the professor in supervision of the major topic, and also by a co-referee to be appointed by the Faculty. The referees shall present to the Faculty written reports on the thesis, to be filed therewith.

The candidate is expected to print his thesis, under the supervision of the professor in charge of his major topic, within one year after the degree is conferred, and shall present one hundred copies to the University, to be distributed among institutions of learning.

The candidate must defend his thesis in the presence of the Faculty or of so many of its members as may be designated by the Faculty.

LAW LIBRARY AND READING-ROOM.

A well-equipped working library, comprising more than 4,000 volumes, is open to the students in Law Lecture Hall from 9 a. m. to 10 p. m. Competent librarians are in charge and will give students assistance in looking up subjects and in the use of books.

The Library contains the standard text-books, the West Reporter system of Federal and State decisions complete, State Reports, the English Common Law and Chancery Reports, Encyclopædias of Law, Digests, reference books, and current law publications.

Adjoining the Library is a conversation-room for students affording opportunity for consultation.

In addition to these facilities, the students have free access to the Congressional Library and other public libraries.

SCHOLARSHIPS AND FELLOWSHIPS.

Two scholarships of an annual value of three hundred dollars each have been established in the Department of Law and Jurisprudence, to be awarded to applicants who desire to become candidates for the degree of Doctor of Jurisprudence. It is hoped that other scholarships and fellowships may soon be announced. Appointments to these scholarships will be made in accordance with the following regulations adopted by the Faculty:

(1) All appointments to scholarships shall be made by the Faculty upon nomination by the Committee on Prizes and Scholarships not later than June first of each year. Such appointments shall be for one year, subject to renewal at the discretion of the Faculty.

(2) All applicants for such scholarships shall be required to submit to the Registrar of the University, not later than May first of each year, statements of their qualifications, accompanied by such papers and certificates as may be necessary to support the statements made.

(3) Any person appointed to a scholarship must be at least twenty-one years of age, must have been graduated both in Arts or Sciences and in Law from institutions of recognized standing, and must possess, in addition to English, such a knowledge of Latin, French, and one other modern language as will enable him to read readily works written in those languages.

(4) Any appointee to a scholarship must be resident in the University during the whole session for which the scholarship is awarded and must give his whole time and attention during such session to the work for which he has registered.

PRIZES.

A prize of \$100, called "The Parker Prize," in honor of its donor, Hon. Myron M. Parker, is awarded each year to the student who attains the highest general average in examinations during the full three-years' course for the degree of Bachelor of Laws.

A prize offered by the Edward Thompson Company, of a set of the *Encyclopædia of Law*, first or second edition, or a set of the *Encyclopædia of Pleading and Practice*, is awarded each year to the senior law student who shall write the best thesis on some legal subject to be assigned by the Faculty.

Three prizes—one of \$40, one of \$30, and one of \$20—are annually given to the respective authors of the best three essays handed in by such members of the Third-Year Class as shall compete for them and shall pass successful examinations.

A prize of \$25 in gold, given by John Thilman Hendrick, and called the "David S. Hendrick Memorial Prize in Insurance Law," in honor of Mr. David S. Hendrick, will be awarded each year to the student in the Second-Year Class who writes the best essay upon some question in Insurance Law which will be selected and approved by the Faculty.

A prize of \$25 in gold, offered by Mr. Fritz von Briesen, called the "Ellsworth Prize," is awarded for the best work done in the Patent Law Course by a student receiving the degree of Master of Patent Laws.

PUBLIC SPEAKING.

Excellent facilities for training in the art of public speaking are afforded by the two debating societies that have been organized in the Department of Law and Jurisprudence. These societies, known as the Columbian and Needham Debating Societies, meet weekly for debate in Law Lecture Hall. Membership in these societies is entirely optional, but their work is encouraged in every legitimate way by the Faculty, and students are urgently advised to take part in their exercises. During each academic year several intercollegiate debates are held. Membership upon the intercollegiate debating teams is an honor eagerly sought and made the prize to be won in separate preliminary contests. The general conduct of these intercollegiate debates is under the supervision of a committee from the Faculty.

Further opportunity for training in parliamentary procedure and debate is given by the University Congress, an organization patterned after that of the Congress of the United States, in which bills are introduced and debated and the general procedure of legislative assemblies followed.

ADMISSION TO THE BAR OF THE DISTRICT OF COLUMBIA.

By the rules of the Supreme Court of the District of Columbia, applicants for admission to the Bar are required to have studied law for three years under the direction of a competent attorney, but by those rules the course in the Department of Law of the University is regarded as discharging this requirement.

FEES.

1. Matriculation fee (payable only on first entry into the University)	\$5
2. Library fee per annum.....	2
3. Tuition fee per annum.....	150
4. Fee for graduation.....	10
5. Tuition fee for course in Patent Law.....	40
6. Tuition fee per annum for any year repeated once.....	75
7. Fee for a certificate under the seal of the University.....	2
8. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes, and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as auditors. No matriculation or library fee is charged.	

No change will be made in the fees fixed at the time of registration except in case of withdrawal, and then only upon notice in due form, and from the end of the current quarter session when such withdrawal shall be approved. Applications for the granting of a withdrawal should be made on the prescribed form to be obtained from the Registrar and will only be received at the end of a quarter session.

The library fee will not be charged for the first half-year during which a course is completed in the case of students who enter at the beginning of the second half-year and pay the library fee for that year.

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Regular tuition fees are payable quarterly in advance. Fees for special courses are payable monthly in advance. Matriculation and library fees are payable in full in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University buildings for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business sec-

tion of the city, prices range from two hundred and fifty to three hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto or in connection with any other matters looking to the comfort of students seeking a residence in the city of Washington.

For catalogues, application blanks and further information address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

DEPARTMENT OF POLITICS AND DIPLOMACY.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....	PRESIDENT OF THE UNIVERSITY
† ———	Dean and Professor of Political Science
JOHN M. HARLAN, LL.D....	Professor of American Constitutional Law
DAVID J. BREWER, LL.D.....	Professor of International Law
JOHN W. FOSTER, LL.D.....	Professor of American Diplomacy
*DAVID J. HILL, LL.D.....	Professor of European Diplomacy
CHARLES C. SWISHER, Ph.D., LL.D....	Professor of History and Politics
HANNIS TAYLOR, LL.D.....	Professor of the History of English Law
OSCAR P. AUSTIN.....	Professor of Commercial Geography
GEORGE WINFIELD SCOTT, Ph.D., LL.B.....	Professor of Administrative Law
ERNEST G. LORENZEN, Ph.B., LL.B., J.U.D.....	Professor of Comparative Commercial Law
C. WILLIAM A. VEDITZ, Ph.D., LL.B.....	Professor of Economics
HENRY PARKER WILLIS, Ph.D.....	Professor of Finance
WILLISTON S. HOUGH, Ph.M.....	Professor of Political Theory
ALFRED NERINCX, LL.D....	Professor of Comparative Constitutional Law
JAMES BROWN SCOTT, A.M., J.U.D....	Professor of International Law and Diplomacy
JOHN W. HOLCOMBE, M.Dip.....	Assistant Professor of Politics
CHARLES RAY DEAN, M.Dip.....	Assistant Professor of European Diplomacy

LECTURERS.

HERMANN SCHOENFELD, Ph.D., LL.D....	Lecturer on European Politics
CARROLL D. WRIGHT, LL.D.....	Lecturer on Statistics and Social Economics
MITCHELL CARROLL, Ph.D....	Lecturer on Roman Political Institutions
JAMES C. MONAGHAN, A.M.....	Lecturer on the Consular Service
† ———	Lecturer on European Diplomacy

OTIS D. SWETT, B.S., LL.M.....Secretary

*Absent on leave.

†To be appointed.

GENERAL STATEMENT.

The "Department of Jurisprudence and Diplomacy" of the University was established in June, 1898, and was formally opened in November of the same year. For a number of years it was closely affiliated with the Law Department. In the fall of 1905, however, this Department ceased to have any organic connection with the Law Department. It now constitutes a distinct branch of the professional and graduate work of the institution, designated as the Department of Politics and Diplomacy. This name is intended to indicate that the purpose of the Department is to fit men for the public service, particularly for the consular and diplomatic service, and to supply that knowledge of the public life of this country and of foreign countries that will be of most value to journalists, teachers, and other persons aiming to become moulders of public opinion upon the national and international issues of the day.

The work of the Department is divided into four groups of courses, as follows: (1) Public Law; (2) Political Science; (3) Economics and Sociology; (4) History.

ADMISSION.

The Department of Politics and Diplomacy is both a graduate and professional school. Before a student can be admitted he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. No student, however, can be admitted to regular standing unless he has a fair knowledge of at least one modern European language—French, German, Spanish, or Italian.

Any person approved by the Faculty may attend one or more courses as a special student, and will receive for the satisfactory completion of such course or courses a certificate of proficiency. All the departments of the University are open to regular students in this department without additional charge. No student, however, will be permitted to carry on simultaneously work for two distinct degrees unless this is expressly allowed. Upon the presentation of satisfactory evidence, students coming here from other institutions to complete their studies may be admitted to advanced standing if they have already done work equivalent to that required here.

DEGREES.

Two degrees are conferred for the satisfactory completion of work required in this Department—that of Master of Diplomacy and that of Doctor of Philosophy.

Candidates for the degree of Master of Diplomacy must pass at least two full years of residence at this University. They shall sustain satisfactory examinations on the studies pursued, and present an acceptable thesis, together with a bibliography of the subject investigated. Each student, moreover, must have satisfactorily completed, before he can graduate, courses aggregating at least ten hours per week for each of the two years of his residence. This total number must include all of the courses that are hereinafter designated as "required." In the selection of elective courses to make up the total number of hours required, students must consult with the Advisory Committee of the Faculty of this Department. No course taken by a student shall be counted twice in the fulfilment of requirements for degrees. No student can graduate who has not passed a satisfactory examination, at the end of his course, in two modern European languages, one of which must be French. Theses for the Master's degree in Diplomacy must be presented in their final form not later than six weeks before the date of the convocation at which the candidate expects to receive the degree. There are two convocations annually—one in February and one in June.

Candidates for the degree of Doctor of Philosophy in this Department must have pursued specialized courses in University subjects and engaged in original research in certain of the subjects taught in this Department, under the auspices of the professors in charge of those subjects, for a period of not less than three years, and have submitted an acceptable thesis and met all the requirements prescribed. The degree is given, however, not because of the faithful completion of a course of study according to a stated programme for a given length of time, but for high attainments and proved ability to do research work in some special branch of knowledge, as determined by the various tests applied.

Before a student can become a candidate for the degree of Doctor of Philosophy in this Department he must give evidence that he has completed a liberal undergraduate course of academic study such as is required by colleges of good standing antecedent to the baccalaureate degree. The President's Council reserves the right to decide in all cases whether the antecedent training fulfils the requirements. Should the candidate for the degree of Doctor of Philosophy already possess the degree of Master of Diplomacy and elect his major subject and at least one minor from among the subjects offered in the Department of Politics and Diplomacy, the minimum period of further study requisite for at-

taining the degree shall be two years instead of three. The applicant for the Doctor's degree may be credited with graduate work done at other universities, provided that such work is shown to be of a grade similar to that required here; but at least one year must be spent in residence at this University, and the other requirements of the degree as prescribed here must be fulfilled.

Candidates for the degree of Doctor of Philosophy shall offer themselves in three topics from the University subjects—one major and two collateral minor studies—the combination to be approved by the President's Council. These must be pursued under the guidance of a committee consisting of the professors in charge of the major and minor topics, with the professor in the major subject as chairman. This committee, in charge of the candidate, shall determine his division of time, study, and research in the major and minor topics, but in general the major topic should be pursued during the whole time devoted to graduate work and each minor topic during at least one year.

The candidate shall pass satisfactory written examinations upon the three subjects selected. The examinations in the minor topics may be taken at the completion of the courses pursued or at the discretion of the professors in charge. In written examinations the time limit is four hours for the major and three hours for the minor topics.

The candidate must show that he possesses a knowledge of French and German, as evidenced by familiarity with the French and German literature pertaining to his special branches of study. The head professor of a subject may require such knowledge of other subjects as is considered fundamental.

The candidate must present a satisfactory thesis, together with an exhaustive bibliography, not later than six weeks before the date of the convocation at which he expects to receive the degree. The thesis must represent independent thinking and research in some branch of his major subject.

After their acceptance theses shall become the property of the University and must be deposited in the University archives, but authors are permitted to make copies. All theses, before submission for the degree, must be typewritten on official thesis paper, which may be obtained from the Assistant Treasurer of the University.

No thesis for the degree of Doctor of Philosophy shall be submitted to the University Council until it has been approved by the professor having supervision of the major topic, and also by a co-referee to be appointed by the President's Council. The referees shall present to the Council written reports on the thesis, to be filed therewith.

The candidate is expected to print his thesis, under the supervision of the professor in charge of his major topic, within one year

after the degree is conferred, and shall present one hundred copies to the University, to be distributed among institutions of learning. The candidate, finally, must defend his thesis and submit to an oral examination upon his major topic before a board of experts, to be appointed by the President's Council, consisting of three specialists of university standing and established reputation in the subject represented by the principal topic.

SCHEDULE OF COURSES.*

REQUIRED COURSES.

First Year, First Half-year:

International Law. One hour. Professor BREWER.
 European Diplomacy. One hour. Professor J. B. SCOTT.
 History and Methods of Arbitration. One hour. Professor ———.
 Statistics. Two hours. Professor WILLIS
 Economic and Commercial Geography. Two hours. Professor
 AUSTIN.
 Modern European History. Two hours. Professor SWISHER.

First Year, Second Half-year:

International Law. One hour. Professor BREWER.
 European Diplomacy. One hour. Professor J. B. SCOTT.
 Organization of the State Department. One hour. Professor
 ———.
 Statistics. Two hours. Professor WILLIS.
 Economic and Commercial Geography. Two hours. Professor
 AUSTIN.
 Modern European History. Two hours. Professor SWISHER.

Second Year, First Half-year:

History of American Diplomacy and Treaties. One hour. Professor FOSTER.
 International Law. Three hours. Professor J. B. SCOTT.
 Comparative Constitutional Law. One hour. Professor NERINCX.
 Political History of the United States. Two hours. Professor
 SWISHER.
 International Trade. Two hours. Professor VEDITZ.
 Seminary in Political Science. Professor ———.

*Subject to changes which will be announced in the special bulletin of this Department.

Second Year, Second Half-year:

- International Law. Three hours. Professor J. B. SCOTT.
 Comparative Constitutional Law. One hour. Professor NERINCX.
 Political History of the United States. Two hours. Professor SWISHER.
 The Consular Service. One hour. Mr. MONAGHAN.
 Seminary in Political Science. Professor ———.

The Seminary in Political Science will meet once each week for a session of at least two hours' duration. The seminars for graduate students in Arts and Sciences are open to students in the Department of Politics and Diplomacy provided they possess the requisite antecedent training.

Students in the Department of Arts and Sciences who desire to take the course in Politics and Diplomacy are allowed to count the completed work of the first year in the Department of Politics and Diplomacy, which involves research and extensive reading in addition to the class-room work, as fifteen points in fulfilment of the requirements prescribed for an academic degree. Thus it is possible for a student to combine his last year in college with his first year in the Department of Politics and Diplomacy, and to receive a baccalaureate degree in arts or science, and the master's degree in diplomacy, one year sooner than would otherwise be possible.

Students in this Department are required to take *at least* ten hours' class-room work per week in each year of the course, and in order to fulfil this requirement they may select from among the following elective courses, most of which are also offered for advanced students in the Department of Arts and Sciences:

ELECTIVE COURSES.

(Open to both first and second-year students.)

First Half-year only:

- Bismarck as a Statesman. One hour. Professor SCHOENFELD. (In alternate years; not given in 1906-07.)
 Disraeli as a Statesman. One hour. Professor SWISHER. (In alternate years; given in 1906-07.)
 Colonial Politics. One hour. Professor SWISHER.
 The Theory of the State. Two hours. Professor HOUGH.
 Industrial Evolution. Two hours. Professor VEDITZ.
 The Science of Society. Two hours. Professor VEDITZ.
 Statistics and Social Economics. Professor WRIGHT.

Second Half-year only:

- Railway Law, including Interstate Commerce. Two hours. President NEEDHAM.
- Problems of Eastern Europe. One hour. Professor SCHOENFELD. (In alternate years; given in 1906-07.)
- The Oriental Problem. One hour. Professor SWISHER. (In alternate years; not given in 1906-07.)
- American Social Problems. Two hours. Professor VEDITZ.
- Theory of Rights. Two hours. Professor HOUGH.
- Public Life of the Romans. Two hours. Professor CARROLL.
- Socialism and Social Reform. Two hours. Professor VEDITZ. (In alternate years; not given in 1906-07.)
- Labor Legislation. Two hours. Professor VEDITZ. (In alternate years; given in 1906-07.)

Through the Year:

- British Imperialism. Two hours. Professor SWISHER.
- Comparative Politics. Two hours. Professor ———.
- Comparative Commercial Law. Two hours. Professor LORENZEN. (In alternate years; not given in 1906-07.)
- Origin and Growth of the Constitution and Common Law of England. Two hours. Professor TAYLOR.
- Constitutional Law of the United States. One hour. Professor HARLAN.
- Money and Banking. Two hours. Professor WILLIS.
- The History of Political Theories. One hour. Professor HOUGH.
- Public Finance. Two hours. Professor WILLIS. (In alternate years; not given in 1906-07.)
- Corporation Finance. Two hours. Professor WILLIS. (In alternate years; not given in 1906-07.)
- Accounting. Two hours. Professor WILLIS. (In alternate years; given in 1906-07.)
- Political Economy. Three hours. Professor VEDITZ.

Detailed statements of the scope of these courses and the methods of instruction employed in the Department will be published soon after this catalogue is issued, and can be obtained upon application to the Registrar of the University.

In view of the fact that students in this Department are required, before graduating, to be familiar with two modern European languages, of which one shall be French, the courses in French, German, Spanish,

and Italian which are offered in Columbian College will be open to students in Politics and Diplomacy.

Arrangements are being made to provide for a number of lecture courses not enumerated in this Catalogue. These will probably include special lectures on the organization of the diplomatic service of other nations, the history of international conventions, and on the lives of eminent statesmen and diplomats, by some of the Diplomatic Corps resident in Washington and by other distinguished public men.

SCHOLARSHIPS.

All appointments to scholarships shall be made by the Faculty upon nomination by a committee, appointed for this purpose, not later than June first of each year. Such appointments shall be for one year, subject to renewal at the discretion of the Faculty. Applicants for such scholarships must submit to the Registrar of the University, not later than May first of each year, statements of their qualifications accompanied by such papers and certificates as may be necessary to support the statements made. Any person appointed to a scholarship must be at least twenty-one years of age, have been graduated in Arts or Sciences from an institution of recognized standing, and must possess, in addition to English, such a knowledge of French and one other modern language as shall enable him to read readily works written in those languages. Any appointee to a scholarship must be resident in Washington during the whole session for which the scholarship is awarded, and must give his undivided time and attention during such session to the work for which he is registered.

THE DRAPER SCHOLARSHIP.

General William F. Draper, of Massachusetts, former ambassador to Italy, has established in The George Washington University in the Department of Politics and Diplomacy a scholarship carrying \$300 annually to the recipient. General Draper in his long experience in Congress as a member of the Foreign Affairs Committee as well as from his experience abroad is greatly impressed with the importance of training men for the diplomatic service, and he has the deepest interest in the enlarged and reorganized work in The George Washington University in the Department of Politics and Diplomacy. The scholarship will be offered primarily to students from Massachusetts and Virginia and will be awarded by the Dean of the Department upon such terms and conditions as shall be prescribed. General Draper's action will naturally

appeal to others who are interested on the same lines and it is confidently believed that from different parts of the country will come additional evidences of the aroused public sentiment for the better training of men for the consular and diplomatic service as well as for those who may seek this branch of study for professional work as counsellors before international and arbitration commissions or for professorial careers.

FEES.

1. Matriculation fee (payable only on first entry into the University)	\$5.00
2. Library fee per annum.....	2.00
3. Tuition fee per annum.....	150.00
4. Fee for graduation.....	10.00
5. Tuition fee per annum for any year repeated once, or for each year in addition to the years of required work.....	75.00
6. Fee for a certificate under the seal of the University.....	2.00
7. Auditors are admitted to lecture courses for the regular tuition fees, but are not permitted to take active part in the work of the classes, and will not be allowed credit, in a subsequent course of studies leading to a degree, for attendance as Auditors. No matriculation or library fee is charged.	

No change will be made in the fees fixed at the time of registration except in case of withdrawal, and then only upon notice in due form and from the end of the current quarter session when such change or withdrawal shall be approved.

PAYMENT OF FEES.

All fees are to be paid to the Assistant Treasurer. Regular fees are payable quarterly, in advance. Matriculation, library, and fees for special courses are payable in full, in advance.

BOARD AND ROOMS.

The price of table board and rooms varies according to locality. Good accommodations may be secured at some distance from the University buildings for two hundred dollars for the session of thirty-three weeks. In the neighborhood adjacent to the University, by reason of its nearness to the heart of the best business section of the city, prices range from two hundred and fifty to three

hundred and fifty dollars for the session of thirty-three weeks. Students frequently form clubs for the purpose of obtaining a reduction in the cost of living. A register of approved boarding-houses is kept by the Assistant Treasurer, who will gladly furnish information in relation thereto or in connection with any other matters looking to the comfort of students seeking a residence in the city of Washington.

For catalogues, application blanks, and further information address

THE REGISTRAR,
The George Washington University,
Washington, D. C.

NATIONAL COLLEGE OF PHARMACY.

FACULTY.

CHARLES WILLIS NEEDHAM, LL.D.....	PRESIDENT OF THE UNIVERSITY
HENRY E. KALUSOWSKI, M.D., Phar.D.....	Dean and Professor of Pharmacy
SAMUEL WAGGAMAN, M.D., Phar.D.....	Professor of Materia Medica, Botany and Toxicology
WILLIAM F. HILLEBRAND, Ph.D., Phar.D.....	Professor of Chemistry and Physics.
FREDERICK A. HOLTON, B.S., Phar.D...	Professor of Analytical Chemistry
BURTON J. HOWARD, B.S.....	Professor of Microscopy
HOWARD M. BRADBURY, Phar.D.....	Assistant to the Professor of Analytical Chemistry
HARRY A. CANDEE, Phar.D.....	Assistant to the Professor of Pharmacy
CYRUS W. NELSON, B.S.....	Assistant to the Professor of Pharmacy
FRED H. PITZER.....	Assistant to the Professor of Pharmacy
*_____	Professor of Mercantile Pharmacy
*_____	Professor of Pharmaceutical Jurisprudence

BOARD OF EXAMINERS.

HENRY E. KALUSOWSKI, *Chairman.*

LEWIS FLEMER.	SAMUEL WAGGAMAN.
FRANK C. HENRY.	FREDERICK A. HOLTON.
SAMUEL L. HILTON.	GILES G. C. SIMMS.
BURTON J. HOWARD.	WILLIAM F. HILLEBRAND.

GENERAL STATEMENT.

The National College of Pharmacy, which is an outgrowth of the Columbian Pharmaceutical Association, organized in April, 1871, was chartered under the provisions of an act of Congress in 1872, and opened its doors to students November 11th of that year. From the date of its organization, the college steadily advanced in material prosperity, until in 1888 it erected a large and commodious building of its own, where the exercises are now held. In February, 1906, it became a member of the educational system of The George Washington University, under the charter of the University granted by Congress March 3, 1905, providing for the organization of colleges. The President of the University is

ex officio president of the National College of Pharmacy, and the College is represented in the President's Council by its Dean.

The work of the college embraces courses in chemistry and toxicology, materia medica, botany, pharmacy, analytical chemistry, and pharmaceutical laboratory work and microscopy. Courses have recently been added in mercantile pharmacy and pharmaceutical jurisprudence. Three years are required for the completion of the prescribed course.

The new College building is centrally located on I street, northwest, between Eighth and Ninth streets. It is easily reached by either of the four principal street car lines of the city.

The College requires for entrance a knowledge of the branches usually taught in the public schools of Washington, D. C., sufficient to entitle the applicant to admission to the High School. Evidence of this may be shown by certificate or by the results of an examination to be held at the College, September 20, 1906. Certificate of proficiency should be in the hands of the Secretary of the College on or before September 20, 1906.

SPECIAL COURSES.

Students who so desire it may select one or more of the branches taught, and upon payment of the fee for single tickets, attend the lectures and laboratory work during the time set apart for such study.

Students taking single tickets will not be entitled to take the examinations for the degree conferred by the College.

THE DEGREE.

The Degree conferred is *Doctor of Pharmacy*.

QUALIFICATIONS FOR THE DEGREE.

1. The candidate must be *twenty-one years of age*.
2. He shall have had four years practical instruction in a pharmacy under the direction of a competent preceptor.
3. He shall have attended three courses of instruction in Chemistry, Pharmacy, Analytical Chemistry, Materia Medica, Botany, and Toxicology, and two in Microscopy, the last of which must have been in this College; and one course each in Mercantile Pharmacy and Pharmaceutical Jurisprudence.
4. He must have passed a satisfactory examination in each of the branches taught.
5. He must be recommended by the Board of Examiners.

MATERIA MEDICA, BOTANY AND TOXICOLOGY.**FRESHMAN COURSE.**

The first four or five lectures constitute an introduction to the study of elementary botany, after which follow in order vegetable histology and plant physiology. The subject-matter of these lectures is thoroughly explained by means of charts, diagrams and specimens.

JUNIOR COURSE.

The lectures in this course are devoted to the consideration of the various theories concerning the vegetable world and the practical results obtained by experienced laborers in this vast field of science. During the time devoted to these subjects the lecturer illustrates the lectures by means of the lantern and microscope. A large part of the course is devoted to a consideration of the official organic drugs.

SENIOR COURSE.

The lectures following the junior course on plants and their relation to Materia Medica are mainly upon the active principles, adulterants, official preparations, therapeutic uses, and doses; after which the organic and inorganic poisons are taken up under three heads: 1st, Corrosive; 2d, Irritant; and 3d, Neurotic Poisons. Under these three divisions are explained briefly their action, detection and antidote.

PHARMACY.**FRESHMAN COURSE.**

This course is given to the study of the various pharmaceutical processes and operations. The opening lecture defines Pharmacy and states its relations to the arts and sciences; then follow in the order named lectures on metrology, heat, thermometry, evaporation, distillation, fusion, sublimation, calcination, granulation, comminution, solution, filtration, clarification, decoloration, precipitation, crystallization and extraction, during which the various methods used to bring about the desired results will be illustrated.

JUNIOR COURSE.

During the first part of this course the time is given to the application of the processes considered during the Freshman year to pharmacopœial preparations, and such modifications thereof as

adapt them to special uses. This will include methods for making solutions of various substances, extracts, pills, tablets, triturates, compressed tablets, capsules, powders (simple and compound), suppositories, plasters, ointments, cerates, and oleates.

The latter part of this course is taken up with the study of official preparations obtained from the mineral kingdom, beginning with bromine, chlorine, iodine, phosphorus, and sulphur, followed in the order named by carbon, boron, silicon, the inorganic acids, potassium, sodium, lithium, ammonium, magnesium, calcium, barium, zinc, aluminum, cerium, cadmium, manganese, iron, chromium, lead, silver, copper, mercury, antimony, arsenic, bismuth and gold.

SENIOR COURSE.

The time during this course is mainly given to the study of compounds chiefly derived from organic matter, such as cellulose and products obtained therefrom, amylaceous, mucilaginous and saccharine substances; glucosides and alkaloids, volatile oils and animal products commonly used in pharmacy, vegetable oils, soaps, resins and products from resins.

ANALYTICAL CHEMISTRY.

The instruction in this department is intended to present to the student the chemical tests of the United States Pharmacopœia; to familiarize him with methods for the identification of substances and for the detection of impurities; to instruct him in the methods of assaying and the use of volumetric solutions, and to enable him to analyze any ordinary mixture of inorganic material.

The course of instruction embraces three years of practice in the chemical laboratory and class-room exercises.

For the purpose of carrying out the work of this department a large, well-equipped laboratory is provided having drawer and locker accommodations for one hundred and twenty students and desk space for forty students working together at one time. The laboratory is provided with the usual water and gas facilities, and has recently been wired and installed with electric apparatus whereby electro-chemical methods of analysis can be taught and the application of the electric current to the preparation of chemicals by the methods of electro-chemistry can be illustrated before the students. The laboratory is also provided with ample hood facilities for keeping the atmosphere of the room free as possible from deleterious fumes, and is equipped with means for giving an ample supply of distilled water. These and other facilities afford

students exceptional opportunities to become familiar with the fundamental principles of the science of chemistry.

The first year is devoted to experimental work so arranged as to supplement the lectures in General Chemistry. The student attains a knowledge of elementary principles, becomes familiar with manipulating apparatus, and is prepared to commence analytical work.

The second year covers a systematic course in qualitative analysis in connection with the tests of the United States Pharmacopœia.

The third year is devoted to volumetric analysis by means of the standard solutions of the Pharmacopœia.

GENERAL CHEMISTRY AND PHYSICS.

Inasmuch as the subjects of Analytical Chemistry and Pharmacy are fully provided for in other courses, these lectures are devoted more closely to the fundamental principles and classification which must underlie a thorough and systematic knowledge of Chemistry. Owing to the intimate connection existing between Chemistry and several branches of Physics, a number of lectures illustrating the more important laws and principles of some of these branches precedes the regular course in Chemistry, and others on these subjects with which a prior acquaintance is less important, follow after the student has acquired some knowledge of chemical changes. During the first half of the second year Physics and the non-metallic elements receive consideration, followed during the remainder of the second and a portion of the third year by the metals. The greater portion of the third year is devoted to the exposition of the more important facts, principles, and theories of Organic Chemistry.

Quizzes are held frequently throughout the three years, in order to test the students and to enliven their interest in the various subjects.

MICROSCOPY.

This College, recognizing the importance and value of Microscopy in the practice of Pharmacy, has established a separate course in this branch and requires full attendance from Junior and Senior students. The course of Microscopy gives instruction in the use of the compound microscope as an aid in the study and identification of drugs.

The work includes both lectures and laboratory courses, and consists in the examination of plant tissue as illustrated in various vegetable substances most familiar to pharmacists. Special attention is given to the structural characteristics by which one drug can be distinguished from another as well as to the detection and identification of the most common adulterants used.

MERCANTILE PHARMACY AND PHARMACEUTICAL JURISPRUDENCE.

These courses are required in the Senior class only. The names of the lectures and titles of text-books will be announced later.

FEES.

Matriculation	\$5
Tickets for the full year's course of instruction, Freshman or Junior	70
Tickets for the full year's course of instruction, Senior.....	80
Single tickets for Chemistry, Materia Medica, Botany and Toxicology, each	15
Single tickets for Analytical Chemistry.....	20
Single tickets for Practical Pharmacy.....	20
Single tickets for Microscopy.....	10
Single tickets for Mercantile Pharmacy	5
Single tickets for Pharmaceutical Jurisprudence	5
Fee for Diploma	10

SCHEDULE.

The thirty-fifth annual session of the College will begin on Wednesday, September 26, 1906, and close on Wednesday, June 5, 1907.

Monday.	Tuesday.	Wednesday.
FRESHMEN.		
Botany. Lectures and Recitations, 10 to 11 a. m.		
Pharmacy. Lectures and Recitations, 11 a. m. to 12 m.		
Recess, 12 m. to 1 p. m.		
Pharmacy. Laboratory Work, 1 to 4 p. m.		
JUNIORS.	SENIORS.	FRESHMEN.
Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.	Microscopy. Lectures, Laboratory Work and Recitations, 6 to 8 p. m., October 5 to February 12.	Physics and General Chemistry. Lectures and Recitations, 6 to 7 p. m.
Analytical Chemistry. Lectures, Recitations and Laboratory Work, 7 to 11 p. m.	Mercantile Pharmacy. Lectures and Practice, 8 to 10 p. m., Feb. 12 to End of Term.	Analytical Chemistry. Lectures, Recitations and Laboratory Work, 7 to 11 p. m.
	Pharmaceutical Juris- prudence. 8 to 9 p. m.	

SCHEDULE.

Thursday.	Friday.	Saturday.
<p>SENIORS.</p> <p>Materia Medica and Toxicology. Lectures and Recitations, 10 to 11 a. m.</p> <p>Pharmacy. Lectures and Recitations, 11 a. m. to 12 m.</p> <p>Recess, 12 m. to 1 p. m.</p> <p>Pharmacy. Laboratory Work, 1 to 4 p. m.</p> <p>JUNIORS.</p> <p>Microscopy. Lectures, Laboratory Work and Recitations, 6 to 8 p. m.</p>	<p>SENIORS.</p> <p>General and Organic Chemistry. Lectures and Recitations, 6 to 7 p. m.</p> <p>Quantitative Chemical Analysis. Lectures and Recitations, 7 to 11 p. m.</p>	<p>JUNIORS.</p> <p>Botany and Materia Medica. Lectures and Recitations, 10 to 11 a. m.</p> <p>Pharmacy. Lectures and Recitations, 11 a. m. to 12 m.</p> <p>Recess, 12 m. to 1 p. m.</p> <p>Pharmacy. Laboratory Work, 1 to 4 p. m.</p>

Entrance examination at 1 p. m. on Thursday, September 20, 1906, in the lecture-room of the College. Annual examination of Freshmen and Juniors for promotion and of Seniors for graduation begins on Monday, May 15, 1906.

PART III.

Boards, Committees, and Auxiliary Organizations.

BOARD OF UNIVERSITY PUBLICATIONS.

THE PRESIDENT, *ex officio*.

PROFESSOR MITCHELL CARROLL, *Director*. PROFESSOR WILLIAM R. VANCE.
 PROFESSOR CHARLES E. MUNROE. PROFESSOR C. W. A. VEDITZ.
 PROFESSOR D. KERFOOT SHUTE. OTIS D. SWETT, *Secretary*.

The Board of University Publications was organized to have administrative and editorial supervision over the official publications of the University. THE GEORGE WASHINGTON UNIVERSITY BULLETIN is published four times a year as the organ of the educational and scientific activities of the University. The University Catalogue constitutes one number. The Alumni Number, issued in June, is devoted to information regarding the work and plans of the University of especial interest to alumni and patrons. Scientific numbers are published from time to time, containing contributions from instructors and graduates and information regarding books, monographs and papers issued by them under other auspices. A supplement to the University Bibliography appears annually, containing titles of publications for the current year and lists of publications of instructors and graduates not appearing in the 1904 Bibliography.

The Board has also entered upon the publication of papers by instructors in the following groups: Philology and Literature, Philosophy, Science, Law and Jurisprudence, Politics and Diplomacy.

This Board has also general supervision over student publications. These are at present the *University Hatchet*, a weekly newspaper, and the University Annual, known as *The Mall*, which are in charge of an editor-in-chief and business manager, and an editorial board selected from the student body under the direction of the Association of Class Presidents. Annual reports are submitted by the Editor-in-chief and the Business Manager to a committee representing the Class Presidents and the Board of Publications, and after approval are placed on file with the Board.

COMMITTEE ON THE UNIVERSITY LIBRARY.

PROFESSOR CHARLES CLINTON SWISHER, *Chairman*.
 PROFESSOR WILLIAM R. VANCE, *Secretary*.
 PROFESSOR FRANK H. BIGELOW.
 PROFESSOR A. F. A. KING.
 PROFESSOR HERMANN SCHOENFELD.

This Committee, consisting of members from the various Faculties, was organized for the purpose of making recommendations in regard to the selection of books for purchase, the expenditure of the Library Fund, and the general administration of the Library.

UNIVERSITY ATHLETICS.

ATHLETIC COUNCIL.

Faculty Members.

CHARLES EDWARD MUNROE, Ph.D., Professor of Chemistry.

THOMAS A. CLAYTOR, M.D., Professor of Materia Medica and Therapeutics.

JOHN PAUL EARNEST, A.M., LL.M., Professor of Law.

Alumni Members.

W. F. R. PHILLIPS, M.D., *Chairman.*

H. T. BRIGHT.

CHAPIN BROWN.

C. M. BEALL, M. D.

BRUCE BULASKI.

H. P. BLAIR.

Undergraduate Members.

E. L. REED, President of the Athletic Association.

H. M. BRADLEY, Captain of Base-ball Team.

D. W. MCENERY, Manager of Base-ball Team.

B. G. STEENERSON, Captain of Foot-ball Team.

E. C. WILSON, Manager of Foot-ball Team.

The Athletic Council has complete control over all athletic sports, subject to the general authority of the President's Council. The Athletic Council is determined annually as follows: The Faculty members are appointed by the President of the University; the President of the Athletic Association (undergraduate organization), and the managers of the base-ball and foot-ball teams are elected annually by the Association; the Alumni members are chosen by the Athletic Council from the Alumni. Each member of the Council has one vote, except the Alumni members, who collectively have three votes. No student is permitted to take part in any athletic contest who is not regularly registered as taking a full course in the University and whose class standing is unsatisfactory. No student is permitted to engage in any contest unless his physical condition is approved by a medical examiner designated by the Council.

INTERCOLLEGIATE DEBATING COUNCIL.

Faculty Members.

C. W. A. VEDITZ, Ph.D., LL.B., *Chairman.*
ERNEST G. LORENZEN, Ph.B., J.U.D.

Alumni Members.

JOHN W. LANGLEY, LL.M.
HENRY F. WOODARD, LL.B.

Student Members.

CLARENCE W. WHITMORE (Enosinian Society).
ALLEN G. FLOWERS (Columbian Society).
JOHN A. SMITH (Needham Society).
LEON SHELTON (University Congress).

The Intercollegiate Debating Council was created one year ago for the purpose of bringing under systematic control the intercollegiate debating interests of the University. Representation in the Council is given to the Faculty, the Alumni Association, and to the several student debating organizations whose membership is sufficiently large to entitle them to it. All matters pertaining to intercollegiate debates in which The George Washington University is a party fall within the jurisdiction of this Council.

During the past year the students of the University have participated in four intercollegiate debates. On February 5, 1905, George A. Malcom, Carl A. Badger, and William W. Woodwell, with B. F. Rhodes as alternate, represented this University against the University of Virginia. On March 3, 1905, C. W. Whitmore, Wm. C. Van Vleck, and E. P. Gates, of The George Washington University, defeated a team of debaters representing Washington and Lee University. On May 27, 1905, Robert B. Pharr, Leonie Bone, and Samuel Edelstein, with Louis Cohen as alternate, defeated the Georgetown University debaters. On December 9, 1905, Alvin L. Newmyer, Marcus H. Burnstine, and E. P. Gates, with Leon Shelton as alternate, defeated the University of Virginia in debate.

COMMITTEE ON DRAMATIC AND MUSICAL ORGANIZATIONS.

PROFESSOR HOWARD L. HODGKINS, *Chairman.*

PROFESSOR MITCHELL CARROLL.

PROFESSOR C. WILLIAM A. VEDITZ.

This Committee has general supervision over dramatic and musical societies organized among the students of the University. Students desiring to form such clubs must submit to the Committee a draft of their proposed undertaking, together with the name of the business manager and a list of prospective members, for the approval of the Committee.

ASSOCIATION OF CLASS PRESIDENTS.

MEAD MOORE, Medicine, '06, *President.*

JAS. D. DODSON, College, '09, *Vice-President.*

CLARENCE A. MILLER, Politics and Diplomacy, *Secretary.*

ROBT. MCG. JONES, Law, '08, *Treasurer.*

C. W. WHITMORE, College, '06.

R. BRAGAW, College, '07.

W. J. TURKENTON, College, '08.

J. B. BOGAN, Medicine, '07.

G. H. HART, Medicine, '08.

C. A. SORENSON, Medicine, '09.

J. W. TAYLOR, Dentistry, '06.

G. P. JACKSON, Dentistry, '07.

J. A. GRUBBS, Dentistry, '08.

CARL A. BADGER, Law, '06.

CHAS. F. GERRY, Law, '07.

L. V. LANDRY, Master of Laws, '06.

DELOS H. SMITH, Master of Laws, '07.

The Association of Class Presidents is an organization made up of the Presidents of the various classes in the University. It is thus a truly representative body, and is clothed with sufficient authority to render its actions important and far-reaching. It is through this body that the University authorities are able to keep in close touch with each class in the University and to communicate with them as occasion may require. One of the notable achievements of this organization during the past year was its pioneer work in the establishment of the Board for the Publication of the University Annual, *The Mall*, and putting the same on a permanent basis.

THE GEORGE WASHINGTON UNIVERSITY MEDICAL SOCIETY.

A. B. HOOE, M.D., '96, *President*.

JOHN W. CHAPPELL, M.D., '83, *Vice-President*.

D. WEBSTER PRENTISS, JR., M.D., '99, *Secretary*.

LEWIS H. TAYLOR, M.D., '03, *Treasurer*.

Members of Council.

HENRY C. YARROW, M.D.

J. LEWIS RIGGLES, M.D., '00.

T. N. McLAUGHLIN, M.D., '82.

T. A. GROOVER, M.D., '98.

SAMUEL FRYE, M.D., '02.

The following extract from Article I of the constitution shows the scope and intent of the Society:

"SECTION 1. The name of this organization shall be The George Washington University Medical Society.

"SECTION 2. The object of this society shall be: The consideration and advancement of medical science, the cultivation and perpetuation of closer friendly and social relations between the Alumni of the Department of Medicine, and the general promotion of the interests and welfare of the University in all its departments."

All graduates of the Department of Medicine are eligible to membership. Two classes of members are recognized, (a) active members, who must be residents of the District of Columbia, and (b) non-resident members, alumni of the Department outside of the District of Columbia. Active members pay annual dues of \$4.00, non-resident members pay annual dues of \$1.00. The Society meets in the Medical Building on the third Saturday of every month from October to May, both inclusive. Correspondence should be addressed to the Secretary, Dr. D. Webster Prentiss, Jr., 1315 M street, N. W.

CLUBS.

Important work is done by students in Clubs organized in connection with various departments of instruction. These organizations include the following:

1. The Classical Club, monthly.
2. The Architectural Club, monthly.
3. Civil Engineering Society.
4. The Electrical Club.
5. The Mechanical Engineering Society.

ALUMNI ASSOCIATIONS.

THE GENERAL ASSOCIATION.

Officers, 1905-1906.

President.

WILLIAM BRUCE KING.

Vice-Presidents.

DR. GEORGE N. ACKER.

JOHN JOY EDSON.

ALDIS B. BROWNE.

HENRY F. WOODARD.

JOHN PAUL EARNEST.

MYER COHEN.

*Secretary.**Treasurer.*

HOWARD L. HODGKINS.

JOHN B. LARNER.

Executive Committee.

WILLIAM BRUCE KING, Chairman.

HOWARD L. HODGKINS, Secretary.

DR. GEORGE N. ACKER.

J. W. HOLCOMBE.

DR. C. W. APPLER.

DR. A. F. A. KING.

ALDIS B. BROWNE.

JOHN W. LANGLEY.

MYER COHEN.

JOHN B. LARNER.

WILLIAM A. DECAINDRY.

DR. T. N. McLAUGHLIN.

JOHN T. DOYLE.

STANTON C. PEELLE.

JOHN PAUL EARNEST.

MASON N. RICHARDSON.

JOHN JOY EDSON.

HENRY F. WOODARD.

PUGET SOUND ALUMNI ASSOCIATION.

*President.**Vice-President.*

CHARLES F. MUNDAY.

WILLIS B. HERR.

Secretary and Treasurer.

WILLIAM E. McCLURE,

Dexter Horton Bank Building, Seattle, Washington.

COLORADO ALUMNI ASSOCIATION.

*President.**Vice-President.*

LUCIUS M. CUTHBERT.

HERBERT L. McNAIR.

Secretary and Treasurer.

CLARENCE A. BRANDENBURG,

501 Equitable Building, Denver, Colorado.

SALT LAKE CITY ALUMNI ASSOCIATION.

President.

DR. WILLIAM F. BEER.

Vice-President.

MAURICE M. KAIGHN.

Secretary.

C. L. OLSON.

Treasurer.

J. E. WILLEY.

NEW YORK ALUMNI ASSOCIATION.

President.

FRITZ V. BRIESEN.

Secretary.

OLIVER C. CARPENTER.

52 William Street, New York City.

SOUTHERN CALIFORNIA ALUMNI ASSOCIATION.

President.

JAMES R. ROGERS.

*Secretary.*GEORGE RUSSELL DUNCAN,
328 South Spring Street, Los Angeles, Cal.

From 1821 to 1905 the University conferred 6,378 degrees upon 5,016 persons. A list of graduates is kept at the University by the Secretary of the General Alumni Association, and contains the names, occupations, and addresses of more than 3,200 living graduates. All Alumni are requested to send to him notices of changes in address and any other items of information and interest in reference to graduates or former students of the University.

THE COLUMBIAN WOMEN.

President.

MISS EMMA HARPER TURNER.

First Vice-President.

MRS. WM. REYNOLDS VANCE.

Second Vice-President.

MISS JULIA McMILLAN.

Recording Secretary.

MISS CATHERINE McILHENNY.

Corresponding Secretary.

MISS M. A. CLANCY.

Treasurer.

MISS REBECCA E. SHANLEY.

Historian.

MISS AMY G. THOMPSON.

The Columbian Women, an organization composed of Alumnæ, wives of Trustees and members of the Faculty, and women students of the University, was formed in 1894 for the advancement of

women, by founding for them scholarships in the University, and for the promotion of the general interests of the University. In recent years it has devoted itself mainly to collecting funds for a scholarship to be known as "The Columbian Women Scholarship." They have also raised money for the University Hospital and for reference books for the Library.

BOARD OF LADY MANAGERS OF THE GEORGE WASHINGTON UNIVERSITY HOSPITAL.

President.

MRS. HOWARD L. HODGKINS.

First Vice-President.

MRS. CHARLES J. BELL.

Second Vice-President.

MRS. H. C. YARROW.

Recording Secretary.

MRS. EDWARD BENNETT ROSA.

Corresponding Secretary.

MRS. W. McK. STOWELL.

Treasurer.

MRS. S. E. LEWIS.

The Board of Lady Managers of the University Hospital was formed at the inception of the Hospital, in 1898, to act as "a Board of Visitors, with power to raise money for the Hospital, and with such powers and duties in connection with the purchase of supplies and equipment as are assigned them by the President." The Board consists of ninety women, who meet monthly to consider the various needs of the Hospital and to plan how best to meet them. The equipment of the enlarged building for the Hospital was due chiefly to the energies of this Board.

GEORGE WASHINGTON MEMORIAL ASSOCIATION.

President.

MRS. ARCHIBALD HOPKINS.

Vice-Presidents.

MRS. CHARLES D. WALCOTT.

MRS. CHARLES J. BELL.

MRS. HENRY MALLORY.

MRS. FRED B. MCGUIRE.

MISS BESSIE J. KIBBEY.

MISS ALICE RISLEY SEWARD.

Corresponding Secretary.

MRS. J. HUBLEY ASHTON.

Recording Secretary.

MRS. SUSANNA PHELPS GAGE.

Treasurer.

MRS. FRANK NORTHRUP.

Trustees.

MRS. L. D. M. SWEAT.

MRS. DANIEL MANNING.

MRS. LESLIE C. WEAD.

Treasurer Permanent Building Fund.

MR. CHARLES J. BELL.

The George Washington Memorial Association, incorporated September, 1898, is a body of patriotic women representing different parts of the United States, who organized with a view to memorialize Washington's idea of a national institution and to provide a building for scientific research and graduate study. The objects of the Association, stated in the charter, are "to advance and secure the establishment in the city of Washington of an university for the purposes and with the objects as substantially set forth in and by the last will of George Washington, the first President of the United States, and to increase the opportunities for higher education of the youth of the United States."

In the spring of 1904 the Trustees of Columbian University accepted the change of name suggested by the George Washington Memorial Association and its offer to erect on the new site a memorial building for graduate study and scientific research.

SCIENTIFIC SOCIETIES IN WASHINGTON.

Professors and instructors in the University are, with few exceptions, members of one or more of the following learned bodies:

1. The Washington Academy of Sciences.
2. The Anthropological Society of Washington.
3. The Archæological Institute of America, Washington Society.
4. The Biological Society of Washington.
5. The Botanical Society of Washington.
6. The Chemical Society of Washington.
7. The Entomological Society of Washington.
8. The National Society of the Fine Arts.
9. The Society of American Foresters.
10. The National Geographic Society.
11. The Geological Society of Washington.
12. The Columbia Historical Society.
13. The Medical Society of the District of Columbia.
14. The Philosophical Society of Washington.
15. The Society for Philosophic Inquiry.
16. The Washington Economic Society.
17. The Washington Society of Engineers.
18. American Institute of Electrical Engineers, Washington Branch.

PART IV.
STUDENTS IN THE UNIVERSITY.

STUDENTS IN THE UNIVERSITY.

DEPARTMENT OF ARTS AND SCIENCES.

GRADUATE STUDIES.

Master of Arts.

Name.	Legal residence.	City address.
Bays, William Webb	Ga.....	The Geo. Wash. Univ.
A.B., 1904, Washington and Lee University.		
<i>Topics</i> —Major, English 27; Minors, German (Faust), French 21.		
De Forest, Augusta Moulton.....	Kans....	49 Rhode Island Ave.
B.A., 1905, The George Washington University.		
<i>Topics</i> —Major, French; Minors, French. Spanish.		
Edler, August Friedrich Wilhelm....	Germany.	1635 13th Street.
<i>Topics</i> —Major, Germanics; Minors, History, International Law.		
Heartsill, Francis Parham	Texas ..	1820 9th Street.
B.A., 1903, New York University.		
<i>Topics</i> —Major, Latin 42; Minors, English 27, Mathematics 41 and 43, Archæology 21a.		
McPherson, Maud Esther.....	Ill.....	1250 Princeton Street.
B.A., 1905, The George Washington University.		
<i>Topics</i> —Major, English 44; Minors, English 27, German 3, (Auditor, Spanish 1).		
Moore, Robert Irwin.....	Tenn...	Chevy Chase College.
B.A., 1895, Vanderbilt University.		
<i>Topics</i> —Major, History 21; Minors, Latin 43, Economics 20.		
Owens, Rev. Oscar Lee	Md.....	St. James.
B.D., 1905, Rochester Theological Seminary. Richmond College, 1898.		
<i>Topics</i> —Major, English 55; Minor, Philosophy 44.		
Paddock, Ernest Moorehead.....	Penn....	1723 H Street.
B.A., 1894, University of Pennsylvania. Graduate, 1897, Episcopal Theological School, Cambridge, Mass.		
<i>Topic</i> —Philosophy.		
Russell, Alice Dyar.....	Minn...	410 N. J. Avenue, S. E.
B.A., 1903, Minnesota State University.		
<i>Topics</i> —Major, Sociology 20; Minors, Economics 21, Philosophy 25.		
Shields, Walter Clement.....	Penn...	1335 Connecticut Ave.
B.A., 1904, Moravian College, Bethlehem, Pa.		
<i>Topics</i> —Major, English 53; Minors, English 27, English 44.		
Spencer, Nellie Scribner.....	D. C....	1339 Wallach Place.
B.A., 1901, Hiram College.		
<i>Topics</i> —Major, English; Minor, Archæology.		
Turner, Mary Elsie.....	D. C....	414 B Street, N. E.
B.A., 1902, Columbian University.		
<i>Topics</i> —Major, Latin; Minors, Archæology, Æsthetics.		

Master of Science.

Name.	Legal residence.	City address.
Allen, Leslie Lyle.....	N. C....	1931 K Street.
B.E., 1900, A. and M. College, North Carolina.		
<i>Topics</i> —Major, Applied Mathematics; Minors, Pure Mathematics, Descriptive Geometry.		
Coope, Harry.....	Ohio....	706 11th Street.
B.S., 1905, The George Washington University.		
M.P.L., 1901, Columbian University.		
L.L.B., 1899, L.L.M., 1900, National University.		
<i>Topics</i> —Major, Money and Banking; Minors, Public Finance, Corporation Finance.		
Dawson, Edward Matthews, Jr.....	D. C....	1752 S Street.
B.S., 1905, The George Washington University.		
<i>Topics</i> —Major, History 24; Minors, History 21, History 40.		
Gilbert, Walter Merwin.....	N. Y....	Carnegie Institution.
B.S., 1899, College of City of New York.		
<i>Topics</i> —Major, Philosophy 24; Minors, English 27, Philosophy 41.		
Graves, Sheldon Heber.....	Vt.....	1221 K Street.
B.S., 1904, Columbian University.		
<i>Topics</i> —Major, Physical Chemistry; Minors, Stereo-Chemistry, Applied Mathematics 20.		
Hoover, George William.....	Okla....	1921 13th Street.
B.S., 1903, Oklahoma Agricultural College.		
<i>Topics</i> —Major, Organic Chemistry; Minors, Bacteriology, Physiology.		
MacDonald, Donald Francis.....	Wash...	Geological Survey.
B.S., 1905, University of Washington.		
<i>Topics</i> —Major, Economic Geology; Minors, Paleontology, English 27.		
Mitchell, Evelyn Groesbeeck.....	N. Y....	813 T Street.
B.A., 1902, Cornell University.		
<i>Topics</i> —Major, Ichthyology; Minors, Systematic and Morphological Entomology.		
Owen, Frederick Denison.....	Conn....	3 Grant Place.
B.S., 1905, The George Washington University.		
<i>Topics</i> —Major, Civil Engineering 21; Minors, Archaeology 21, Philosophy 47.		
Pistorio, Irene Mabel.....	D. C....	2142 G Street.
B.S., 1904, The George Washington University.		
<i>Topics</i> —Major, Architectural Design; Minors, Archaeology, Composition of Architecture.		
Smith, Delos Hamilton.....	Ariz....	1905 F Street.
<i>Topics</i> —Major, Architectural Design; Minors, Architecture 30, 20, and 40.		
Swett, Otis Dow.....	Md....	Chevy Chase.
L.L.B., 1891, L.L.M., 1892, B.S., 1904, Columbian University.		
<i>Topics</i> —Major, Chemistry; Minors, Electro-Chemistry, Stereo-Chemistry.		

Civil Engineer.

Name.	Legal residence.	City address.
Dunstan, Edwin Vivian.....	Va.....	24 M Street, N. E.
B.S. in C.E., 1905, The George Washington University.		
<i>Topics</i> —Major, Hydraulic Engineering; Minors, Mechanical Engineering 43 I, Civil Engineering 46.		
Mechlin, Oscar Alexander.	D. C....	3020 Cambridge Place.
B.S., 1903, Dartmouth College.		
<i>Topics</i> —Major, Civil Engineering 40; Minors, Civil Engineering 21, 41 and 46.		

Electrical Engineer.

Gregory, Charles Nichols... ..	N. Y....	302 C Street.
B.S. in E.E., 1905, The George Washington University.		
<i>Topics</i> —Major, Electric Power Plant Design; Minors, Mechanical Engineering 23; Electrical Engineering, 42.		
Matthews, James Muscoe.....	Va.....	1109 17th Street.
B.S. in E.E., 1905, The George Washington University.		
<i>Topics</i> —Major, Electric Power Plant Design; Minors, Mechanical Engineering 23; Electrical Engineering 42.		

Mechanical Engineer.

Albert, Frederick Wilhelm	Penn...	2307 32d Street.
B.S. in M.E., 1905, The George Washington University.		
<i>Topics</i> —Major, Mechanical Engineering 25; Minors, Mechanical Engineering 43; Electrical Engineering 40.		

In Attendance.

Donk, Marion Gilbert.....	Fla.....	1736 G Street.
B.A., 1898, Florida Agricultural and Mechanical College; A.B., 1901, Harvard.		
<i>Topics</i> —Graphics 8, Civil Engineering 4.		
Kerr, Robert Howard.....	Md....	College Park, Md.
B.S., 1903, Oklahoma Agricultural and Mechanical College.		
<i>Topic</i> —Chemistry 24.		
Lamson, Eleanor Annie.....	D. C....	2439 18th Street.
B.S., 1897, M.S., 1899, Columbian University.		
<i>Topic</i> —Physics, 42.		
Sinclair, Joseph Henry.....	N. Y...	1825 F Street.
B.A., 1902, University of Rochester.		
<i>Topic</i> —Integral Calculus.		
Taber, Walter C.....	Cal.	Bureau of Soils.
B.A., 1898, Leland Stanford, Jr., University.		
<i>Topics</i> —Chemistry 26; Geology 1.		

Doctor of Philosophy.

Name.	Legal residence.	City address.
Alden, Levi Russell.....	D. C....	809 L Street.
B.A., 1903, M.A., 1904, Columbian University.		
<i>Topics</i> —Major, American History; Minors, History of English Law, Mediaeval History.		
Backus, Cyrus Day.....	N. Y....	U. S. Patent Office.
Ph.B., 1896, LL.B., 1896, Cornell University; B.S., 1904, Columbian University; M.S., 1905, The George Washington University.		
<i>Topics</i> —Major, Electrical Engineering; Minors, Physics 22, Chemistry 25.		
Boettcher, Frederick L. J.....	Va.....	1211 G Street, N. E.
B.S., 1894, M.S., 1895, Columbian University.		
<i>Topics</i> —Major, Micro-chemistry; Minors, Biology, Chemistry 23, 24.		
Brodthage, Rev. George.....	Germany.	320 4½ Street, S.W.
Maturity for University studies, Strassburg; 12 semesters University of Strassburg, Berlin, Göttingen.		
<i>Topics</i> —Major, Germanics; Minors, History, Philosophy.		
Church, Calvin Grant.....	Md.....	111 12th Street, S. E.
B.S., 1900, Maryland Agricultural College.		
M. S., 1902, Columbian University.		
<i>Topics</i> —Major, Agricultural Chemistry; Minors, Physical Chemistry, Analytical Chemistry.		
Clark, Marion.....	Md.....	Cecilton, Md.
B.A., 1901; M.A., 1903, Western Maryland College.		
<i>Topics</i> —Major, American History; Minors, Constitutional Law, International Law.		
Day, Herbert Ernest.....	D. C....	Kendall Green.
Ph.B., 1893, Brown University.		
M.A., 1895, Gallaudet College.		
M.A., 1901, Columbian University.		
<i>Topics</i> —Major, American History; Minors, English History, American Literature.		
Doan, Mary.....	Ind.....	10th St. and Grant Pl.
B.S., 1891, M.S., 1893, Purdue University.		
B.L., 1892, Earlham College.		
<i>Topics</i> —Major, English Literature; Minors, Sociology, Philosophy.		
Doyle, Aida Mary.....	Penn...	1123 Dartmouth Street.
B.S., 1898, M. S., 1899, Columbian University.		
<i>Topics</i> —Major, Chemistry; Minors, Agricultural Chemistry, Geology.		
Grover, Frederick Warren.....	Mass. . .	409, The Ontario.
B.S., 1899, Massachusetts Institute Tech.		
M.S., 1901, Wesleyan University.		
<i>Topics</i> —Major, Physics; Minors, Mathematics, Physical Chemistry.		

Name.	Legal residence.	City address.
Hall, Percival	Md....	Kendall Green.
B.A., 1892, Harvard; M.A., 1893, Gallaudet College; M.D., 1890, Columbian University.		
<i>Topics</i> —Major, Pure Mathematics; Minors, Applied Mathematics, Astronomy.		
Hinman, Ida	Iowa ...	1529 Q Street.
B.S., 1892, A.M., 1902, Columbian University.		
<i>Topics</i> —Major, English; Minors, German, French.		
Huidekoper, Frederic Louis	D. C....	1614 18th Street.
A.B., 1896, Harvard.		
<i>Topics</i> —Major, European History; Minors, English History from 1784 to 1885.		
Hyde, William Albert	Conn...	1225 Yale Street.
Ph.B., 1901, Yale University.		
<i>Topics</i> —Major, Physics, 43; Minors, Mathematics 41, Electro-Chemistry, 26.		
Kimball, Herbert Harvey	N. H...	2235 13th Street.
B.S., 1884, N. H. C. A. and M. A.		
M.S., 1900, Columbian University.		
<i>Topics</i> —Major, Astro-Physics; Minors, Meteorology, Practical Meteorology.		
Ludlow, Clara Southmayd.	D. C. ...	2214 Penna. Avenue.
B.S., 1900, M.S., 1901, A. and M. Coll. Miss.		
<i>Topics</i> —Major, Preventive Medicine; Minors, His- tology, Physiology, (Human) Anatomy, Bacteriology and Pathology.		
Lyon, Marcus Ward, Jr.	N. J....	National Museum.
Ph.B., 1897, Brown University; M.S., 1900; M.D., 1902, Columbian University.		
<i>Topics</i> —Major, Zoölogy; Minors, Neurology, His- tology.		
McBryde, Charles Neil	Va	1521 K Street.
B.S., 1891, University of S.C.; B.S., 1892, Va. Polytech.		
Inst.; M.D., 1897, Johns Hopkins.		
<i>Topics</i> —Major, Geology; Minors, Mineralogy, Botany.		
Marsh, Millard Caleb	N. Y ...	1336 Massachusetts Ave.
B.S., 1897, Cornell; M.S., 1905, The George Washing- ton University.		
<i>Topics</i> —Major, Chemistry 41; Minors, Bacteriology, Bio-Chemistry.		
Marshall, Elmer Eugene	D. C....	1327 Newton Street.
B.A., 1889, Ohio Wesleyan University; S.T.B., 1904, Boston University.		
<i>Topics</i> —Major, History 40; Minors, Philosophy 44 and 25, Biblical Literature.		
Mattern, Louis Wilson	Penn. ..	McKinley School.
B.S., 1894, Pa. State College.		
<i>Topics</i> —Major, Chemistry; Minors, Bio-Chemistry, Physical Chemistry.		

Name.	Legal residence.	City address.
Mills, Joseph Strayer.....	Md.....	Central High School.
B.A., 1890; M.A., 1893, Western Maryland College.		
<i>Topics</i> —Major, Chemistry; Minors, Mineralogy, Physics.		
Monaghan, James Charles.....	Wis.....	1335 F Street.
B.A., 1885, M.A., 1903, Brown University.		
<i>Topics</i> —Major, German Literature; Minors, Constitutional Law, International Law.		
Newberne, Robert Edward Lee.. . .	Texas ..	914 New York Avenue.
M.D., 1893, Georgetown University.		
D.D.S., 1898, Tacoma College Dental Surgery.		
B.S., 1901, M.S., 1901, Columbian University.		
<i>Topics</i> —Major, Neurology; Minors, Anatomy, Physiology.		
Newton, Elmer Slayton	Mass....	Rm. 64, The Brunswick.
B.A., 1895, Amherst.		
M.D., 1905, The George Washington University.		
<i>Topics</i> —Major, Bio-Chemistry; Minors, Bacteriology and Organic Chemistry.		
Orth, Henry, Jr.	D. C ...	1011 L Street.
M.E., 1893, Lehigh.		
M.S., 1899, Columbian University.		
<i>Topics</i> —Major, Physical Chemistry; Minors, Organic Chemistry, Theoretical Chemistry.		
Outwater, Raymond.....	D. C....	1312 B Street, S.W.
B.S., 1904, Columbian University.		
M.S., 1905, The George Washington University.		
<i>Topics</i> —Major, Chemistry 41; Minors, Chemistry 22, Bacteriology.		
Patrick, George Edward.....	Iowa ...	Dept. of Agriculture.
B.S., 1893, M. S., 1894, Cornell University.		
<i>Topics</i> —Major, Agricultural Chemistry; Minors, Bacteriology, Bio-Chemistry.		
Peake, James Frederick.....	Va.....	616 9th Street, N. W.
B.A., 1902, Randolph Macon College.		
M.A., 1904, Columbian.		
<i>Topics</i> —Major, American History 24; Minors, Latin, English.		
Portner, Edward George.....	D. C....	Alexandria, Va.
B.S., 1897, M.S., 1898, Columbian University.		
<i>Topics</i> —Major, Chemistry; Minors, Physical Chemistry, Mineral Chemistry.		
Richards, Luther Adolph.....	Va.....	1100 N. Y. Avenue.
B.A., 1902, M.A., 1903, M.S., 1904, Columbian University.		
<i>Topics</i> —Major, Astronomy; Minors, History of Astronomy, Solar Physics.		

Name.	Legal residence.	City address.
Richardson, Edward Elliott.....	D. C....	400 7th Street, S. W.
M.D., 1895, B.S., 1904, Columbian University.		
M.S., 1905, The George Washington University.		
<i>Topics</i> —Major, Rational Psychology; Minors, Neurology, Physiology, Experimental Psychology.		
Robertson, Benjamin Perry.....	Md.....	1116 N. Fulton Av., Balto.
M.A., 1899, Judson College, N. C.		
M.A., 1902, Columbian University.		
Th.M., 1892, S. B. T. Seminary, Louisville.		
<i>Topics</i> —Major, Biblical Literature; Minors, Psychology, Sociology.		
Shear, Cornelius Lott	Md.....	Dept. of Agriculture.
B.S., 1896, A.M., 1900, University of Nebraska.		
<i>Topics</i> —Major, Botany; Minors, Botany, Geology.		
Simon, Abram.....	D. C....	2606 University Place.
Rabbi, 1894, Cincinnati Hebrew Union College.		
B.L., 1894, Cincinnati University.		
<i>Topics</i> —Major, Philosophy; Minors, English Literature, Biblical Literature.		
Snelling, Walter Otheman.....	Mass....	3412 13th Street.
B.S. in Chem., 1904, Columbian University.		
B.S., Gen. Sci., 1905, Harvard.		
<i>Topics</i> —Major, Chemistry; Minors, Advanced Geology, Chemistry of the Rare Earths.		
Solyom, Herbert Louis.....	Md.....	U. S. Patent Office.
B.S., 1902, M.S., 1903, Columbian University.		
<i>Topics</i> —Major, Astro-Physics; Minors, Economics, Meteorology.		
Stiles, George Whitfield, Jr.....	Okla...	25½ Bates Street.
B.S., 1900, Oklahoma Agricultural and Mechanical Coll.		
M.D., 1905, George Washington University.		
<i>Topics</i> —Major, Bacteriology; Minors, Bio-Chemistry, Practice of Medicine.		
Stockberger, Warner Webster	Ohio...	3628 Morgan Avenue.
B.S., 1902, Denison University.		
<i>Topics</i> —Major, Botany; Minors, Botany, Zoölogy.		
Straughn, Martin Norris.....	Md....	College Park, Md.
B.S., 1899, Maryland Agricultural College.		
M.S., 1902, Columbian University.		
<i>Topics</i> —Major, Chemistry 45; Minor, Chemistry.		
Thurston, Ernest Lawton.....	D. C....	1449 Kenesaw Avenue.
C.E., 1893, Columbian University.		
<i>Topics</i> —Major, Applied Mathematics; Minors, Graphic Statics, Differential Equations.		
Waring, Luther Hess.....	Pa.....	2816 Brightwood Avenue.
B.A., 1905, The George Washington University.		
M.A., 1904, Columbian University.		
1896, Graduated from Lutheran Theological Seminary.		
<i>Topics</i> —Major, German History; Minors, Philosophy, Political Science.		

Name.	Legal residence.	City address.
Welsh, John Cleveland.....	Tenn....	229 F Street N. E.
B.S., 1887, Carson and Newman College.		
M.S., 1902, Columbian University.		
<i>Topics</i> —Major, Botany; Minors, Chemistry, Zoölogy.		
Wilkinson, Benjamin George.....	D. C....	Takoma Park, D. C.
B.A., 1897, University of Michigan.		
M.A., 1905, Union College.		
<i>Topics</i> —Major, History 45; Minors, American History, English History.		
Wilkinson, Oscar	Miss....	1404 L Street.
M.D., 1896, Tulane University.		
Ph.B., 1902, University of Mississippi.		
M.A., 1903, Columbian University.		
<i>Topics</i> —Major, Physiological Optics; Minors, Therapeutics, Practice of Medicine.		
Wilson, Harold Henry.....	Mo.....	Washington Barracks.
B.A., 1902, M.A., 1904, Park College, Mo.		
<i>Topics</i> —Major, Botany; Minors, Zoölogy, Bacteriology.		
Witherspoon, Thomas Alfred	Tenn....	U. S. Patent Office.
1883, Graduated from U. S. Naval Academy.		
L.L.B., 1891, M.S., 1897, Columbian University.		
<i>Topics</i> —Major, Physical Chemistry; Minors, Chemistry, Electricity.		
Woodward, Sherman Melville.	Arizona.	Department of Agric.
M.S., 1893, Washington University, St. Louis.		
M.A., 1896, Harvard University.		
<i>Topics</i> —Major, Hydrodynamics; Minors, Mechanical Engineering, Relation between Precipitation and Run-off on Watersheds.		

COLUMBIAN COLLEGE.

Bachelor of Arts.

Name.	Legal residence.	City address.
Adams, Vera Elsie.....	D. C....	503 B Street, N. E.
Allis, Frank Coy.	N. Y....	936 K Street.
L.L.B., 1903, Cornell University.		
Barber, Clara Velma	Fla....	703 East Capitol Street.
Barbour, Grace Evelyn.....	D. C....	1327 12th Street, N. E.
Bethune, Frances Gunby.....	Va.....	The California.
Birch, Mary Simpson.....	Va.....	1107 Lydecker Avenue.
Birtwell, Bertha... ..	Pa	15 8th Street, N. E.
Block, Karl Morgan.....	D. C....	145 11th Street, N. E.
Bodmer, Annie Elizabeth.. ..	D. C....	1325 1st Street, S. W.
Brashears, Irma.....	D. C....	3560 13th Street.
Brookes, John Saint Clair, Jr.....	D. C....	1323 Corcoran Street.
Brown, Robson De S.....	Iowa ...	503 S Street.
Bulloch, Archibald Irvine	Ga	828 13th Street.

Name.	Legal residence.	City address.
Burgdorf, Ada Belle.....	D. C....	512 6th Street.
Burkett, John M.....	Ind	1907 H Street.
I.L.B., 1905, The George Washington University.		
Burroughs, Elizabeth Harding.....	D. C....	515 7th Street, S. E.
Capell, Isabel Rhoda.....	N. Y....	471 H Street.
Cash, Lilian Claire.....	D. C....	22 Tennessee Ave., N. E.
Church, Christine Merrick.....	D. C....	626 N. C. Ave., S. E.
Cochran, Ruth Gilbert.....	Colo....	2464 Wisconsin Avenue.
Conner, Lulu Elizabeth.....	D. C....	Station 47.
Cooke, May Thacher.....	Colo..	1328 12th Street.
Corson, Edna Lois.....	D. C....	1154 17th Street.
Cragin, Harry Seymour.....	D. C....	1210 Massachusetts Ave.
Craig, Marion Edith ..	Va.....	Floris, Va.
Crawford, Angus McDonald.....	Va.....	Alexandria, Va.
Domeratzky, Louis.....	N. Y....	1335 F Street.
Earl, Merritt.....	Wis....	Office of Indian Affairs.
Edler, August Frederick Wilhelm....	Germany	1635 13th Street.
Ellis, Ethel Dean.....	D. C....	1330 Massachusetts Ave.
Essick, Blanche Lillian.....	D. C....	105 Kentucky Avenue.
Ettenger, Annie Lee.....	Ind....	1507 Grant Street.
Evans, Helen Marie.....	D. C....	2227 13th Street.
Farrington, Charlotte Raynsford.....	Minn..	3014 Irving Place.
Farwell, Clarence Gilbert.....	Mass ...	1458 Corcoran Street.
Field, Ruth Genevieve.....	Wis....	111 11th Street, S. E.
Fosselman, John J.....	Penn ...	Bureau of Education.
Gates, Edward Percy.....	Ark....	3506 Center Street.
Gillespie, Frances Elma.....	Texas..	The Varnum.
Hall, Mark Anthony.....	Iowa ...	606 The Sherman.
Haslup, Alice Elma.....	Md.....	1322 I Street.
Hayes, Edwin.....	Md.....	Baltimore, Md.
Hazard, Edna Gretchen.....	D. C....	1488 Chapin Street.
Hubbard, Elbert Hamilton.....	Iowa....	Hamilton Hotel.
Kaufman, Juanita.....	D. C....	1313 Rhode Island Ave.
Kelly, Edward James.....	Mich...	623 19th Street.
Longfellow, Charles Fay.....	Ill.....	The Iowa.
M.D., 1904, Jefferson Medical College.		
McAvoy, Catherine Agatha.....	D. C....	1917 17th Street.
McCleary, Ethel Hanna.....	D. C....	217 I Street.
McCoy, Louise Winifred.....	D. C....	328 E Street, N. E.
McCoy, Marion Elizabeth.....	Dak....	1014 B Street, N. E.
MacMullen, Edgarda Marion.....	Penn ...	107 2d Street, N. E.
Mahan, Jane.....	W. Va..	1250 Columbia Road.
Marye, Tench Tilghman.....	D. C....	1526 29th Street.
Merrill, Anne Margaret.....	Maine..	1422 Staughton Street.

Name.	Legal residence.	City address.
Merritt, Pearl Ketcham	Minn ...	154 F Street, S. E.
Morrow, James Benjamin.....	D. C....	3123 13th Street.
Moyer, Jennie	D. C....	610 8th Street, N. E.
Newhouser, Roy Lyman Joseph.....	Pa	127 6th Street, S. E.
Newton, Margaret.....	D. C....	1625 R Street.
Pearce, Anna Elizabeth.....	D. C....	1425 35th Street.
Peet, Elizabeth.....	N. Y ...	Kendall Green.
Person, Ellen Bertha.....	S. Dak..	3030 Q Street.
Powers, Edgar Cordell.....	Md.....	Brightwood Park, D. C.
Prince, George Washington	Ill.....	3113 13th Street.
Raber, Katherine May	Ohio ...	1123 13th Street.
Reinke, Charlotte.....	Texas ..	The Iowa.
Ridout, Edith Heiskill.....	D. C....	1517 Corcoran Street.
Ross, Margery.....	Penn...	Fairmont Seminary.
Salsbury, Annis.....	Va.....	816 18th Street, N. W.
Schoenfeld, Hans Frederick Arthur..	D. C. ..	1629 Howard Avenue.
Scott, Mabel Lavinia.....	D. C....	1455 Binney Street.
Sebree, Jessie Lydia.....	D. C....	327 Delaware Ave., N. E.
Sherier, James Thomas.....	D. C....	Conduit Road.
Sherman, Dorothea Foote	Va.	428½ M Street.
Singleton, Ogle Ridout.....	D. C....	2020 H Street.
Smith, Louise Jane.....	W. Va..	513 B Street, N. E.
Sniffin, William Webb	D. C....	312 N. C. Ave., S. E.
Stansbury, Blanche Gertrude	Va	Alexandria, Va.
Stauffer, May Katharine.....	Penn...	3238 N Street.
Stevens, Clella Lucile	Penn...	641 B Street, N. E.
Stuart, Maud Hascall.....	Mich. ..	123 11th Street, N. E.
Suit, Florence Eugenia.....	Md	2016 G Street
Swartwout, Jessamine Eliza.....	D. C....	12 Iowa Circle.
Swett, Annie Kate	D. C....	1822 9th Street.
Taylor, Adele Ria.....	N. Y....	2705 P Street.
Van Vleck, William Cabell.....	D. C....	800 E Street, N. E.
Watkins, Rhoda.....	Penn....	1412 14th Street.
Wells, Rosa King.....	N. C....	430 3d Street, N. W.
White, Emilie Margaret.....	Vt	2568 University Place.
Whitmore, Clarence Willard.....	D. C....	807 1st Street.
Young, Ruth Bell.....	Va	Ballston, Va.

Bachelor of Science.

Alden, Anna Grace.....	D. C....	809 L Street.
Allen, Nila Frances	Ind.....	323 Md. Avenue, N. E.
Austin, Ella Morgan	W. Va..	1223 L Street.
Barnum, William Horatio	N. Y....	Carnegie Institution.
Behrend, Esther May	D. C....	1214 K Street.
Besselievre, Nellie Ecker.....	Pa	315 E Street, N. E.

Name.	Legal residence.	City address.
Biscoe, John Edward.....	D. C....	813 21st Street. Graduate, Virginia Military Institute.
Bond, Eugene Webster.....	Ill	The Baltimore.
Brandenburg, Joseph Franklin.....	D. C....	915 French Street.
Carter, James Roy.....	Mich...	1115 N Street.
Clafin, Elsie Grace.....	D. C....	1117 O Street.
Coblenzer, Elsa.....	D. C....	The Lenox.
Cochran, Mildred Winans.....	D. C....	2464 Wisconsin Avenue.
Crawford, Mary Page.....	Va.....	2026 North Capitol St.
Crocker, Howard De Coit.....	Va.....	Navy Department.
Curl, Joseph Ryland.....	D. C....	2312 I Street.
Dahn, Franz Frederick William.....	Minn...	1211 B Street, S. E.
Field, Eva Cornelia.....	Wis	111 11th Street, S. E.
Greene, Olive Wirt.....	Ill.....	12 I Street, N. E.
Harper, Minnie.....	D. C....	619 G Street.
Harrington, Katherine.....	D. C....	Conduit Road.
Hathaway, Lillie Theresa.....	Ohio....	1600 Park Street.
Hifton, Harriette Jeanne.....	N. J....	634 East Capitol Street.
Hornaday, Frank A.	Texas...	615 5th Street, N. E.
Johnson, Clara Elizabeth.....	Ind.....	706 11th Street.
Johnston, Mildred Floyd.....	D. C....	1762 N Street.
Keathley, Lillie.....	N. C....	1824 California Avenue.
Kramer, Stephen.....	D. C....	1318 S Street.
Lamb, William Ers.....	D. C....	1322 I Street.
Lawton, William Henry.....	D. C....	2024 H Street.
McMahon, Margaret Agnes.....	N. Y...	1611 13th Street.
Macmillan, Julia Theckla.....	D. C....	600 Md. Avenue, N. E.
Mechlin, Ernest Frederick.....	D. C....	3020 Cambridge Place.
Miller, Alvin Wilson.....	D. C....	2914 N Street.
Morgan, Elonzo Tell.....	W. Va..	1108 8th Street.
Mosher, Edith R.....	Mich...	1337 L Street.
Nicholson, Percival Harford.....	Md.....	309 5th Street, S. E.
Phillips, Adon Daniel.....	N. Y...	1702 4th Street.
Purcell, Robert Blaine.....	Va.	415 Florida Avenue.
Reavis, Andrew Bryant.....	Tenn...	3525 Eslin Avenue.
Richardson, Sarah May.....	D. C....	1308 U Street.
Root, Emeretta G.....	Utah....	1004 Whitney Avenue.
Rowley, Clifford Alonzo.....	Kans...	321 5th Street, S. E.
Saunders, Marie K.....	Okla...	The Brunswick.
Seiler, Justin Frank.....	Ohio...	1013 B Street, N. E.
Shackelford, Laura.....	D. C....	924 Maryland Ave., N. E.
Smoot, Charles Calvert.....	Va.....	Alexandria, Va.
Sperry, John Robertson.....	Ill.	1358 Yale Street.
Sprowls, Allen Donald.....	D. C....	245 10th Street, N. E.
Steever, Laura Winfield.....	Md....	1333 F Street.

Name.	Legal residence.	City address.
Thompson, Oscar	Wis	1829 G Street.
Triepel, Emma Mathews Vaughan...	N. C....	780 Harvard Street.
Van Doren, Emma May	D. C....	629 Mass. Ave., N. E.
Voss, Edna Renard.	D. C....	1300 Lydecker Avenue.
Wright, Clarence Aldro	D. C....	1829 Kalorama Avenue.
Wyçhgel, Ettina Gerhardina.....	N. Y ...	922 14th Street.
Young, George Le Roy.....	N. Y...	635 Maryland Ave., N.E.

Bachelor of Science in Chemistry.

Crowe, John Joseph.....	D. C....	Bladensburg Road.
Fuller, Aubrey Vail.....	D. C....	2318 1st Street.
Gourley, George Frederick.....	Md.....	U. S. Pension Agency.
Houghton, Harry Wilson.....	Md.....	B. of C., Dept. of Agr.
Hubbard, Prevost.....	D. C....	1804 17th Street.
Marsh, Allen	Ohio ...	628 E Street.
Meyer, Will Beck.....	D. C....	609 P Street.
Mulroy, James Garfield.....	N. Y ...	1614 Swann Street.
Munroe, Russell Barker.....	D. C....	The Valois.
Orton, Warren.. ..	D. C....	16 Florida Ave., N. E.
Parker, Charles Edwin.....	N. J....	1631 Fairmont Street.
Pohlmann, Joseph John.	N. Y ...	2917 Olive Avenue.
Sherwood, Sidney Forsythe	Va.....	218 N. Patrick St., Alex.
Smith, Edwin, Jr.....	Md.....	Rockville, Md.
Smith, William Bradford.....	Mass...	1208 M Street.
Reed, Edward Oliver.....	D. C....	1216 S Street.
Wilson, Clarence Paret.. ..	Md.....	Hyattsville, Md.

Bachelor of Science in Politics.

Hamu, Theodore Cushing.	Cal.....	922 14th Street.
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Special.

Adams, Frank Samuel.....	S. C ...	1018 12th Street.
Adams, Mary Lee.....	S. C....	1018 12th Street.
Alger, William E.....	N. Y ...	639 F Street, N. E.
Allen, Ralph Palmer	N. J....	1523 N. H. Avenue.
Anderson, Henry Melville.....	Ala....	2009 G Street.
Arnall, Emma Brooks.....	Texas...	1923 K Street.
Beckwith, Sarah Laura.....	Ga.....	1115 O Street.
Blake, Charles Glenville.....	D. C....	1515 31st Street.
Boshard, John Albert.....	Utah....	1503 12th Street.
Bowker, Charles Harvey.....	N. H....	1349 L Street.
Bowman, John Alexander	D. C....	61 I Street.
Braman, Charles Edwin.. ..	R. I....	1334 1/2 B Street, S. E.
Brandes, August Rudolph Ferdinand..	Cal.	Govt. Printing Office.
Briggs, Victoria J.....	N. Y....	Rm. 33, The Brunswick.

Name.	Legal residence.	City address.
Brooks, Walter John.....	Penn... 57 N Street.	
Bryson, Laura Elizabeth.....	Pa 714 12th Street, N. E.	
Butler, Barbara Wallace.....	D. C.... 4 B Street, N. E.	
Byrne, Henry Herbert.....	N. Y... 105 Maryland Ave., N. E.	
Carpenter, Essex Porter.....	D. C.... 1921 G Street.	
Chadwick, George Albert.....	N. J 623 South Fairfax Street.	
Charles, Garfield.....	Ill..... 1203 Q Street.	
L.L.B., 1904, L.L.M., 1905, Georgetown University.		
Church, Grace Ella	D. C.... 626 N. C. Avenue.	
Condron, Gertrude Cleone.....	D. C.... 816 K Street.	
Connelly, Mary.....	D. C.... 1438 S Street.	
B. S., 1891, Columbian University.		
Cook, Richard John.....	Ark 2024 G Street.	
Corpus, Rafael.....	P. I.... 1308 R Street.	
Curtis, William Barnard.....	N. Y... Chevy Chase. Md.	
Daniels, Richard Duvall.....	D. C.... Brookland, D. C.	
Davis, Allan.....	Ohio... 900 11th Street, S. E.	
B. S., 1890, M.S., 1896, Columbian University.		
De Iesi, Pauline Mazurie.....	Penna.. The Cumberland.	
Doing, Jennie E.....	Md.... 1007 L Street.	
Donnally, Mary Louise.....	D. C.... 1018 14th Street.	
Dowling, Edwin Joseph.....	D. C.... 523 14th Street, N. E.	
Dufour, Arline Hughes.....	D. C.... 1343 L Street.	
Duncan, William	Mass... Hydrographic Office.	
Dunlop, William L., Jr.....	D. C.... 3014 N Street.	
Dunwoody, Ellen	D. C.... 1522 31st Street.	
Duras, Victor Hugo.....	Nebr ... 2000 F Street.	
L.L.B., 1902, University of Nebraska,		
L.L.M., 1903, Columbian University.		
Dutton, Edwin C.	Md.... 416 5th Street.	
L.L.B., 1901, Washington College of Law.		
Duvall, Mildred.....	D. C.... 1827 M Street.	
Dye, John Walter	Minn... 1514 K Street.	
Finch, Elmer Harrison.....	Mich... 1923 K Street.	
Fisher, Dwight Wilton	D. C.... 1828 G Street.	
Fisher, Lewis Civile	Colo.... 1434 Columbia Road.	
Gardner, Raymond Bigelow	Mich... 1303 Clifton Street.	
Gillespie, Elizabeth R.....	Ky..... 1313 N Street.	
Gloetzner, Herman Francis.....	Idaho... 1228 M Street.	
Gonzalez, Antonio Cornelius.....	N. Y... 1417 K Street.	
Gordon, Hayner Haskell ..	Ohio ... 1310 Princeton Street.	
Gow, Bernard Arthur	Mo..... 921 8th Street.	
L.L.B., 1896, Missouri State University.		
L.L.M., 1905, The George Washington University.		
Hall, Willis Edgar.....	Ind. .. 1330 F Street.	

Name.	Legal residence.	City address.
Hance, Emma Osborn.....	Va.	R.F.D.No.4, Wash., D.C.
Handy, Walter Kerr.....	Va.	1331 12th Street.
Heimbeck, Adolph James.....	Iowa ...	Auditor for Treas. Dept. M.Dip., 1905, The George Washington University.
Herriott, Ruth E.....	D. C....	1127 Roanoke Street.
Hoberman, Samuel.....	N. J....	908-12 N. J. Avenue.
Holzberg, Tonnis Julius	D. C....	911 N. H. Avenue.
Hord, Parker Abner.....	Ky.....	607 E Street.
Horsey, Anna Carroll.....	Md....	1828 Jefferson Place.
Hough, Roland P.....	Va.....	1106 6th Street.
Jewell, Benson Mundy.....	Ill.....	318 8th Street, N. E.
Johnson, Albert Sutton	D. C....	1316 Vermont Avenue.
Kasugai, Jotaro.....	Japan...	1126 25th Street.
Keller, John Butt.....	D. C....	1213 Mass. Ave., S.E.
Keneipp, Hugh....	Ill.....	313 5th Street S. E. LL.B., 1901, University of Michigan.
Killough, Isabelle Taliaferro....	D. C....	Gunston Hall.
Koetz, Katherine.....	Penn...	1516 H Street.
Kuhn, Charles....	Ohio ...	1308 I Street.
Locke, John Dexter.....	N. H...	Normandie.
Lockwood, Vesta Janet.....	D. C....	21 7th Street, S. E.
Low, Fred Henshaw	D. C....	1730 Conn. Avenue.
McCarthy, Charles Henry	R. I....	2255 L Street.
McKnew, Edna Isabelle.....	D. C....	1322 Q Street.
McLain, Daniel.....	S. Dak..	1202 K Street.
MacLeod, Helen Mar.....	D. C....	1347 Princeton Street.
McManus, Joseph.....	Mass ...	1916 Sunderland Place. LL.B., 1904, LL.M., 1905, Georgetown University.
Maddren, Alfred Geddes.....	D. C....	131 A Street, N. E.
Marcy, William Larned	Penn....	233 Florida Avenue.
Mertz, Marjorie Ruth	D. C....	3031 Newark Street.
Miller, Thomas Leo.....	D. C....	Woodley Apartment.
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Moore, Eglantine Lee.....	D. C....	1308 Wallach Place.
Moore, Margery Jane.....	N. D...	1636 30th Street.
Moore, Maurice Malcolm.....	Mich ...	1359 Yale Street.
Moore, Thomas Emmett.....	D. C....	45 Quincy Street.
Morhart, Charles Christian	D. C....	228 Morgan Street.
Moskedal, Lillian Belle.....	Okla. .	508 East Capitol Street.
Mowry, Herbert Hager.....	Minn...	1319 Kenesaw Avenue.
Mueden, Pauline.....	D. C....	437 M Street.
Murray, John Donaldson.....	Md.....	1729 H Street. M.D., 1893, College of Physicians and Surgeons.
Murray, Josephine Mary.....	Wis....	945 K Street.
Murray, Sue Harriet	D. C....	1711 35th Street.

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Noel, Fabian Peter.. .. .	Md.....	The Geo. Wash. Univ.
Noyes, Clara Bernard	D. C....	1349 Lansing St., Brook- land, D. C.
Oberlin, Paca.....	Va.....	1238 5th Street.
LL.B., 1903, LL.M., 1904, Colorado University.		
M. Dip., 1905, The George Washington University.		
Parkman, Mary Rosetta.	D. C....	800 E Street, N. E.
Parris, Worden Whitman.....	D. C....	3122 P Street.
Pellett, Mirl Edison	Ill.....	307 East Capitol Street.
Peltz, Edna May....	Ill.....	925 New York Ave.
Portner, Oscar Charles	Va.....	1410 16th Street.
Powell, Eris	Tenn...	1368 Kenyon St., N. W.
Raymond, Elizabeth Jarvis	Conn....	1444 Rhode Island Ave.
Reich, Mary Grace.....	D. C....	2902 P Street.
Rhee, Syngman.....	Korea..	802 L Street.
Robertson, Tillie J.....	Texas...	Brookland, D. C.
Robertson, Willard.. ..	Texas...	Brookland, D. C.
Sams, Elder E	Iowa...	1306 L Street.
Ph.B., 1897, Mississippi Agricultural and Mechanical College.		
Saxton, Howard	Nebr....	103 I Street.
LL.B., 1901, University of Nebraska.		
LL.M., 1904, Columbia University.		
M.Dip., 1905, The George Washington University.		
Schofield, Henry Kendrick	Miss....	213 5th Street, N. E.
Scudder, Margaret.....	D. C....	1126 Lamont Street.
Seitz, Marie Lottie.....	D. C....	1335 R Street.
Siegel, Benjamin.....	Md.....	213 C Street.
Siggons, Mary Henderson	Penn..	The Rochambeau.
Smith, Lucian Conway.....	Va.....	Alexandria, Va.
Smith, Russel.....	Oreg....	Normandie Hotel.
Smith, William Winfield.....	Tenn...	1122 16th Street.
Stocking, Fanny Huldah	D. C....	1323 Princeton Street.
Strobel, Julia Henry.....	D. C....	16 R Street.
Strong, Grace.....	Vt.....	1539 I Street.
Svensson, J. Alfred.....	D. C....	2017 G Street.
M.E., 1888, Technical Institute, Stockholm, Sweden.		
Tait, George Lester.....	D. C....	610 Tennessee Avenue.
Thomas, Clark Stetson	Penn....	1718 13th Street.
M.A.L., 1905, Iowa Christian College.		
Thompson, Helen Seal.....	Penn....	Forest Glen, Md.
Tocro, Edward Chicksien.. ..	China..	The Portner.
Tong, Yu-Nin.....	China..	Chinese Legation.
Torney, John Henry.....	D. C....	1118 I Street, S. E.
Twyeffort, Frank Hubbard....	N. Y....	1736 G Street.
Vorkoeper, John.....	Wis....	1921 G Street.

Name.	Legal residence.	City address.
Wait, C. Bernard.....	Ind.Ter.	23 1st Street, N. E.
Weidemann, Auguerite Elise	D. C....	1237 Princeton Street.
Whitaker, Gertrude.....	Ga	Census Bureau.
White, Charles Mason.....	Va.....	1322 L Street.
Young, Francis Hunter.....	Ill	1457 Chapin Street.

Auditors.

Burnap, Charles Edward.....	Ill.	2001 Kalorama Avenue.
Dickinson, Bertha... ..	Va.	1743 Q Street.
Kohlrausch, Hermine	Germany	1458 Staughton Street.

WASHINGTON COLLEGE OF ENGINEERING.

Bachelor of Science in Civil Engineering.

Name.	Legal residence.	City address.
Adams, Raymond Edmund.....	Penn....	2118 G Street. B.A., 1891, Central High School, Philadelphia, Penn.
Appelman, Louis C.....	S. Dak..	637 Maryland Ave., N.E.
Ballenger, John Everett.....	D. C....	941 H Street.
Burchard, Edwin Day.....	D. C....	1616 3d Street.
Burwell, Eilbeck Mason.....	N. Y....	1127 4th Street.
Cole, Luke Adolphus.....	W. Va..	Coast and Geod. Survey.
Conard, Robert A.....	D. C....	The Stoddart.
Croxton, Roland Albert.....	D. C....	1332 T Street.
Curran, William Joseph Francis.....	Va.....	437 S Street.
Curtis, James Eugene.....	N. Y....	1011 K Street.
Davidson, William Falconer.....	N. C....	1226 Evarts Street, N. E.
Davis, Raymond Tilton.....	Md.....	509 3d Street.
Davis, Robert Harkness.....	D. C....	938 O Street.
Dodson, James Dunbar.....	D. C....	1714 F Street.
Dougherty, Howard Francis.....	Md.	1002 11th Street.
Dwyer, John Rochford.....	D. C....	628 F Street, S. W.
Dyson, Arnold Horton.....	R. I....	1919 35th Street.
Elliot, William P.....	D. C....	The Portner.
Garvin, Edgerton Chester	Ohio ...	The Brunswick.
Gill, Wilbur Draper.....	D. C....	1925 Cincinnati Street.
Godwin, Harold Ogier.....	S. C....	1515 29th Street.
Hartley, Harry Carter.....	Ill.....	2, The Irving.
Hill, Hugh Stewart	Wyo ...	815 11th Street, N. E.
Hursey, John Stealey.....	D. C....	1815 Vernon Avenue.
Kemp, Silas V.....	Md.....	Navy Yard.
King, Edwin Hauptman.....	D. C....	The Royalton.
Laurie, Johannes Cranston.....	Penn....	1022 9th Street.
Lawrence, Glenn Rupert.....	D. C....	3425 P Street.

Name.	Legal residence.	City address.
Linthicum, Frank Harman.....	D. C....	2116 1st Street.
McInturff, William Carl.....	Va.....	The Milton.
Magruder, Marshall.....	D. C....	Wis. Ave., Station A.
Meads, Eugene.....	D. C....	101 4th Street, N. E.
Meyer, Herbert Alton.....	Ohio ...	118 R Street, N. E.
Miller, Frank Tremain.....	Mich. ..	226 E Street, N. E.
Moody, Theodore L.....	Md.....	1512 P Street.
Murphy, Lee O.....	N. Y....	82 V Street.
Padgett, Harold Dement.....	Md.....	U. S. Geol. Survey.
Panossian, Hagop Avak.....	S. C....	1834 K Street.
Pfau, James Francis.....	Minn...	The Colonial.
Poole, George.....	D. C....	903 E Street, S. E.
Reppenhagen, Ernest.....	N. Y....	9 9th Street, N. E.
Rodgers, William Joyce.....	D. C....	932 C Street, S. W.
Ross, Erwin Worth.....	N. C....	1604 K Street.
Ryan, Daniel Aloysius.....	D. C....	134 M Street, S. W.
B. S., 1905, St. John's College, D. C.		
Senior, Thomas Richard.....	D. C....	203 M Street.
Smith, Harry Locke.....	N. H....	313 S Street, N. E.
Smith, Myron Davis.....	Mass....	128 C Street, N. E.
Smoot, Alden.....	D. C....	3066 Q Street.
Stivers, Arthur Ducat.....	Mo.....	1412 15th Street.
Stonebraker, Harold English.....	D. C....	645 Mass. Ave., N. E.
Stuwe, John Daniel.....	Minn...	1017 P Street.
Tompkins, Charles Hook.....	D. C....	1521 North Capitol St.
Turkenton, William James.....	D. C....	1513 33d Street.
Wanner, Howard Paul.....	Penn...	Hotel Stratford.
Waters, Joseph Henry.....	D. C. ...	Takoma Park, D. C.
Weller, Michael Angelo.....	D. C....	408 Seward Square.
Whiting, Louis Wine.....	Md.....	Hyattsville, Md.
Winter, Maxwell W.....	Nebr...	814 A Street, S. E.
Yates, Robert Raleigh.....	Va.....	1608 6th Street.

Bachelor of Science in Electrical Engineering.

Abert, Franklin Bache.....	Md.....	Rockville, Md.
Blanco, Enrique.....	D. C....	1016 10th Street.
Boyden, John Hanson.....	Va. ...	1014 K Street.
Bruninga, John Hermann.....	Ill.....	Navy Yard.
Carty, Roy Franklin.....	Md.....	1234 Howard Street.
Call, Loren Heinlein.....	D. C....	1448 Howard Avenue.
Daniels, Ara Marcus, Jr.....	D. C....	1401 T Street.
Daniels, Ralph Edward.....	Ark....	2024 G Street.
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LL.B., 1905, National University.

Name.	Legal residence.	City address.
Easterday, George Winship.....	D. C....	1681 31st Street.
Fehr, J. Ralph.....	Ill.....	2231 15th Street.
Fleming, Robert F.....	D. C....	1847 Wyoming Avenue.
Gunning, James McIntosh.....	N. J....	634 East Capitol Street.
Gwin, Thomas R.....	Ga.....	1216 Connecticut Ave.
Johnson, Arthur Edward..	Conn...	1523 Vermont Avenue.
Kemon, Lee B.....	D. C...	1723 3d Street, N. E.
Kisseleff, Charles William.....	N. Y....	1030 North Capitol St.
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Nickel, William Frederick.....	Md.....	382 Patent Office.
Parry, William.....	Penn...	1919 G Street.
Parsons, John.....	Ky.....	Dept. of Com. and Lab.
Repetti, Joseph S.....	D. C....	149 B Street, S. E.
Repetti, William Charles.....	D. C....	404 Seward Square.
Robinette, Fred. Garfield.....	D. C....	301 Maryland Ave., N. E.
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Shepherd, Emil Lawrence.....	Md.....	1338 R Street.
Stabler, Harold Brooke.....	Md.....	The Regina.
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Stillman, Paul Rollins.....	Iowa...	615 7th Street, N. E.
Swayne, Clyde Chalmers.....	Penn...	3415 Ashley Terrace.
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Veihmeyer, Frank.....	D. C....	438 10th Street, S. W.
Ward, Philip Henry, Jr.....	D. C....	1756 Penn. Avenue.
Webster, George Gerald.....	D. C....	5403 7th Street.
Wenderoth, Ernest F.....	N. Y....	Bureau of Standards.
Wilson, Richard Hagan.....	D. C....	2320 I Street.

Bachelor of Science in Mechanical Engineering.

Acker, Kemp Gerard.....	D. C....	913 16th Street.
Backus, Curtis Beall.....	Va.....	1203 N. H. Avenue
Backus, Willian Alden.....	Va.....	Glencarlin, Va.
Bacon, James Everett..	Nebr...	807 18th Street.
Ball, Eugene Maurice.....	D. C....	3134 P Street.
Bouvier, Emerson Rexford.....	Penn...	Bureau Steam Engin'g.
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Clothier, Albert Lea.....	Ky.....	Int. Revenue Bureau.
Davidson, William Key.....	D. C....	309 A Street, S. E.
Fryer, Ross Lander.....	N. Y....	82 S Street.
Fuchs, Henry.....	Mo.....	3234 N Street.
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Medford, Perry.....	D. C....	1631 3d Street.
Miller, Elton Willard.....	Cal....	1825 1st Street.
Pipes, Walter Logan.....	D. C....	916 T Street.
Rouzer, Horace Dodge.....	Md....	753 8th Street, S. E.
Schaaf, August..	Md....	2231 15 Street.
Stafford, Charles Francis.....	N. Y . .	420 C Street, S. E.
Sutton, Walter Marvin.....	Va . . .	Ballston, Va.
Watkins, Francis Benjamin.....	D. C....	1626 S Street.

Special.

Evans, Oscar Raymond	D. C....	1719 U Street.
Fox, Eugene Valentine.....	N. Y....	421 6th Street.
Freeman, Louis George	D. C....	1700 Columbia Road.
Frick, George Frederick.....	Penn...	1838 4th Street.
Garland, Minnie O.....	Wyo....	Dept. of Agriculture.
Hoffman, Edwin.....	Penn...	523 B Street, N. E.
Kern, Walter Everett	D. C....	29 R Street.
Mackintosh, Ernest King.. . . .	D. C....	25 Quincy Street.
Moore, Arthur Allston.....	D. C....	427 Monroe St., Anacost.
Sampson, Ralph Earle	D. C....	1613 N. H. Avenue.
Shoemaker, William David.....	N. Y....	640 F Street.
Waring, Adrian Duncan.	D. C....	2518 13th Street.
Warren, Frank Eugene.....	Md....	1218 9th Street.

ARCHITECTURE.

Bachelor of Science in Architecture.

Name.	Legal residence.	City address.
Austin, Hamilton Livingston.....	Ark	1208 M Street.
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Fleming, William Henry Irwin	D. C....	1847 Wyoming Avenue.
Holmes, Osgood	D. C....	1444 Staughton Street.
Illman, Hubert Percy	D. C....	1528 10th Street.
Jackson, Henry Edmond	Va	2405 18th Street.
Lombard, Charles Russell.....	Maine..	503 Spruce Street.
Manville, Loren Robert	Iowa. .	The Gladstone.
Mattox, Gail.....	Ohio....	61 Quincy Street.
Prince, Roy Webster.....	D. C....	742 N. J. Avenue.
Smith, Delos Hamilton.....	Ariz....	1905 F Street.
Sullivan, Francis Paul.....	D. C....	1823 Vernon Avenue.
Urling, Neel W.....	Penn...	1120 13th Street.

Name.	Legal residence.	City address.
Wagner, S. Peter	Md.....	1330 13th Street.
Wéber, Gusztáv	Hungary	409 4th Street, N. E.

Special.

Atkinson, Robert Bruce	D. C....	940 French Street.
Bachschmid, Ernst Christian	D. C....	310 B Street, N. E.
Berryman, George Rue.....	Va.	1311 Q Street.
Blasey, Joseph..	D. C....	214 Arthur Place.
Bubb, Ralph Simpson.....	D. C....	719 9th Street, N. E.
Burnham, Brooke Browning.....	D. C....	103 C Street, S. E.
Childs, George Singleton	Md.....	1825 I Street.
Coleman, Thomas Carlisle.....	N. Y....	The Westover.
Drane, Estella Constance..	D. C....	419 Mass. Avenue.
Dysland, Henry Theodore.....	Wis....	150 E Street, N. E.
Fitzpatrick, Charles C.....	N. Y....	645 8th Street, N. E.
Fowle, Arthur Clayton.....	D. C....	446 M Street.
Hutchinson, Carleton Waterbury....	D. C....	1331 G Street.
Keene, Herbert Newton, Jr.....	D. C....	208 Elm Street.
Knowles, William Alexander.....	Md....	National Museum.
Lockie, Joseph A.....	Me. . .	1601 Laurel Avenue.
McAuley, Hugh Nisbet.....	D. C....	530 21st Street.
Nichols, Albert Benjamin.....	Conn...	308 C Street, N. E.
Parker, Claud Eubank	D. C....	1638 R. I. Avenue.
Pierce, Godwin Raymond.....	Penn...	16 Kentucky Avenue.
Rider, William P.....	Md.....	1607 7th Street.
Wallace, William G. F.....	Fla....	3011 Cambridge Place.

TEACHERS' COURSES.**Aesthetics.**

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Greene, Olive W.....	D. C....	12 I Street, N. E.
Hutchinson, Minnie B.....	D. C....	306 5th Street, S. E.
Kemp, Bertha.....	D. C....	1123 13th Street.
Mason, Josephine D.....	D. C....	132 A Street, N. E.
Moore, Margery Jane.....	D. C....	1636 30th Street.
Rupli, Theodosia.....	D. C....	174 P Street.
Rutherford, Edith.....	N. Y....	107 Md. Ave., N. E.
Sliney, Rose Standish.....	D. C....	1428 Welling Place.
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Archaeology, Classical.

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Flannery, Mary Philomena.....	D. C....	1600 1st Street, N. E.
Gardiner, Pearl F.....	D. C....	717 10th Street.
Hussey, Edmondson.....	D. C....	13 Randolph Place.
Twichell, Bertha Forbes.....	Mass...	620 I Street.

Architecture.

Bugbee, Mary Florence.....	D. C....	101 12th Street, N. E.
Croxtan, Grace A.....	D. C....	1332 T Street.
Drane, Estella Constance.....	D. C....	419 Mass. Avenue.
Illman, Hubert Percy.....	D. C....	1528 10th Street.
Mattox, Gail.....	Ohio. . .	61 Quincy Street.
North, Hilda.....	D. C....	2807 14th Street.
Queen, Margaret.....	D. C....	113 C Street, S. E.
Reeves, Fannie Lee.....	D. C....	730 22d Street.
Thönssen, Ruby E.....	D. C....	315 C Street, S. E.
Tompkins, Lida Roberta.....	Va.	1881 3d Street.

Diplomacy.

Connolly, Frankanna.....	D. C....	1628 Swann Street.
Dow, Annie M.....	Mass....	230 A Street, N. E.
Foster, Mrs. Corra Bacon.....	Texas...	307, The Plaza.
Graham, Josephine E.....	D. C....	209 3d Street, S. E.
Lowry, Mamie.....	D. C....	1934 3d Street.
Nichols, Helen G.....	D. C....	2821 11th Street.
Otterback, Sarah E.....	D. C....	318 E Street, N. E.
Sexton, Teresa L.....	D. C....	1227 F Street, N. E.
Willcox, Grace.....	Md.	2030 P Street.
Wright, Olive.....	D. C....	The Olympia, 63.
Yoder, Bertha A.....	D. C....	124 11th Street, S. E.

Economics.

Given, M. E.....	D. C....	1761 U Street.
Hoyme, Eleanor Bruce.....	D. C....	731 13th Street.
Malone, Marion Josephine.....	D. C....	414 Albany Street, N. E.
Shanley, Rebecca E.....	D. C....	Business High School.
Young, Irene Otilie.....	D. C....	904 New York Avenue.

English.

Clancy, M. Agnes.....	D. C....	1519 Rhode Island Ave.
Fant, Jessie Du Bois.....	D. C....	321 A Street, S. E.

Name.	Legal residence.	City address.
Fitz Gerald, Louise.....	D. C....	1804 S Street.
Haslup, Alice Elma	Md.....	1322 I Street.
Heath, Louise.....	D. C....	617 Florida Avenue.
Howell, Blanche Braxton.....	D. C....	724 10th Street, N. E.
McLean, N. E. L.....	D. C....	1331 Q Street.
Maloney, Emma J.	D. C....	Cameron Flats.
Marshall, E. Blanche.....	D. C....	635 East Capitol Street.
Meyers, Minnie Matilda.....	D. C....	1319 Kenesaw Avenue.
Smith, Janie Alice.....	D. C....	637 Mass. Ave., N. E.
Tennyson, James Anna	Md.....	224 8th Street, S. W.
Underwood, Harriet.....	N. Y....	3223 N Street.
Van Doren, Emma May.....	D. C....	629 Mass. Ave., N. E.
Vansant, Elsie.....	D. C....	209 11th Street, S. W.
Walker, Alberta.....	D. C....	The Landmore.
Wagner, Maud.....	D. C....	12 9th Street, S. E.
Wanstall, Laskey.. ..	D. C....	1706 F Street.

History.

Blandford, Nannie	D. C....	801 C Street, S. W.
Beller, Lizzie C	D. C....	235 1st Street, N. E.
Clark, Anna J.....	D. C....	2907 13th Street.
Connell, Lillie M.....	D. C....	610 N. J. Avenue.
Ditto, Janet Lyle.....	D. C....	The Mendota.
Galiher, Blanche P.....	D. C....	436 6th Street, N. E.
Gibbs, Kate Maria.....	Mass. .	1216 S Street.
Hardy, Rose Lees.....	D. C....	638 East Capitol Street.
Heath, Louise.....	D. C....	617 Florida Avenue.
Holmes, Grace Bruce.....	D. C....	Takoma Park, D. C.
Hughes, Margaret L.....	D. C....	315 B Street, N. E.
Hummer, Elizabeth Alice	D. C....	638 East Capitol Street.
King, Winifred.....	D. C....	1347 S Street.
Lanman, Lula E.....	D. C....	2209 M Street.
Michaelsen, Elsie	D. C....	1424 W Street.
Shanley, Rebecca E.....	Penn...	117 4th Street, S. E.
Smith, Emma Miriam.....	Penn...	800 E Street, N. E.

Law, Constitutional.

Austin, Miriam J.....	D. C....	728 F Street, N. E.
Brosnahan, Margaret Loretto.....	D. C....	916 1st Street.
Daly, Ida M.....	D. C....	Lanier Heights.
Duffy, Helen Augusta.....	D. C. .	222 K Street.
Nichols, Helen Gilman.....	D. C....	2821 11th Street.
Potter, Mary V.....	D. C....	903 R Sireet.

Name.	Legal residence.	City address.
Roach, Florence M.....	D. C....	1826 North Capitol St.
Sisson, Abbie Mills	D. C....	1804 1st Street.
Walker, Mrs. Mary E. C.....	D. C....	1125 11th Street.
Yoder, Bertha Alice.....	D. C....	124 11th Street, S. E.

Summary.

GRADUATE STUDIES :

Candidates for the M.A. degree.....	12	
Candidates for the M.S. degree.....	12	
Candidates for the C.E. degree.....	2	
Candidates for the E.E. degree	2	
Candidate for the M.E. degree.....	1	
Candidates for the Ph.D. degree	48	
In attendance.....	5	
	<hr/>	82

COLUMBIAN COLLEGE :

Candidates for the B.A. degree	92	
Candidates for the B.S. degree.....	57	
Candidates for the B.S. in Chemistry degree.....	17	
Candidate for the B.S. in Politics degree	1	
Special....	133	
Auditors.....	3	
	<hr/>	303

WASHINGTON COLLEGE OF ENGINEERING :

Candidates for the B.S. in C.E. degree.....	59	
Candidates for the B.S. in E.E. degree.....	38	
Candidates for the B.S. in M.E. degree.....	25	
Special.....	13	
	<hr/>	135

ARCHITECTURE :

Candidates for the B.S. in Architecture degree....	15	
Special.....	22	
	<hr/>	37

TEACHERS' COURSES :

Æsthetics	15	
Archæology	7	
Architecture.....	10	
Diplomacy	11	
Economics.....	5	
English	18	
History.....	17	
Law, Constitutional.....	10	
	<hr/>	93
Total.....		650

DEPARTMENT OF MEDICINE.

FACULTY OF MEDICINE.

Doctor of Medicine.

First Year.

Name.	Legal residence.	City address.
Abbott, John Woodward.....	Maine..	1321 Corcoran Street.
A.B., 1905, Bates College.		
Asbell, Mellege Shaw	S. C....	1320 12th Street.
B.A., 1901, Wafford College.		
Bales, Ernest Norment.....	Cal....	913 F Street.
Bradley, Henry Moffatt.....	S. C....	1007 Mass. Ave., N. E.
Brooks, James Joseph Lester.....	Penu...	465 Florida Avenue.
Brown, Jay.....	Md....	Sibley Hospital.
Chappell, Sidney Lovett.....	D. C...	Tennallytown.
Charters, George Chancellor.....	Va.....	911 Mass. Avenue.
Clark, Albert Patton.....	D. C....	1747 U Street.
Phar. D., 1905, National College of Pharmacy.		
Collins, James Cleveland.....	Va.....	1142 6th Street.
Conklin, Rush West.....	Kans. ..	Gov't Printing Office.
Craft, Clarence Christian.....	S. C....	242 North Capitol St.
Docekal, Jan Weastimil	D. C....	U. S. Nat'l Museum.
Dunn, Abner Beebe.....	Penn...	1130 11th Street.
Eldridge, Watson William, Jr.....	Md	Kensington, Md.
Everhart, Alpha Ray.....	Iowa ...	1820 9th Street.
Fair, Charles Hardy	Va.....	1016 13th Street.
Fearing, Henry Martin.....	N. C....	1016 13th Street.
French, Sanford Williams.....	N. Y....	Naval Hospital.
Frey, John Paul.....	D. C....	1224 30th Street.
Gibson, John Latimon.....	N. C....	1405 New York Avenue.
Gochenour, David Thomas.....	Va.....	28 R Street.
Guasp, Ignacio	P. R....	1719 9th Street.
Gusberg, Morris B.	N. J....	The Geo. Wash. Univ.
Haley, William Marshall.....	Tenn. ..	1132 12th Street.
Harrell, Rufus Jesse.....	Texas..	Y. M. C. A.
Harris, Charles McIlvaine.....	Penn...	1816 H Street.
Hekimian, Nejib Nersess.....	Conn...	13th and G Streets.
Ingersoll, Edwin H.....	D. C...	3519 Prospect Avenue.
Jobson, William Russell.....	Penn. ..	Y. M. C. A.
Kavanagh, James Edward.....	Mass. ..	1431 Q Street.
Keneipp, Edgar Percy.....	Ill.....	136 D Street, S. E.
Kerby, James Philip.....	D. C....	2606 I. Street.
McEnery, Douglas Wiltz.....	La.....	1213 K Street.
B.A., 1903, Tulane University.		
McKnight, Frederick W.....	Ohio....	9 Grant Place.

Name.	Legal residence.	City address.
McLaughlin, James Alexis.....	Colo.. ..	1221 K Street.
McLaughlin, William Frank.....	Penn... ..	717 East Capitol Street.
Macoughtry, James Francis.....	W. Va.. ..	1017 14th Street.
Mann, Edward Leonard.....	N. C....	43 Randolph Place.
Mann, Victor Llewellyn.....	Mich... ..	1531 8th Street.
Micheloni, Louis Antony.....	Uruguay.	601 Howard Avenue.
Morris, Horace.....	Ky....	1411 Corcoran Street.
Morrissey, William Thomas.....	Conn... ..	1509 17th Street.
B.A., 1905, Holy Cross College.		
Nelson, Cyrus William.....	O. T....	Bureau of Chemistry.
B.S. in Chem., 1903, Oklahoma Agricultural and Mechanical College.		
Nichol, James Wallace.....	Mich. . .	506 8th Street, N. E.
Orrison, Lloyd Foster.....	Va.....	17 Mt. Vernon Place.
Peirce, Robert Philip.....	D. C....	2900 P Street.
Pole, Samuel Boyce, Jr.....	D. C....	216 8th Street, N. E.
Powell, Robert Llewellyn.....	Va.	934 O Street.
Price, Walter.....	D. C....	438 N. J. Avenue, S. E.
Rougeon, Charles F.....	La.....	1005 G Street.
Sharp, George Tarplit.....	D. C....	Cleveland Park.
Simonton, Laurence Joseph.....	Ind.	Agric. Dep't, B. A. I.
Sinclair, Leith Llewellyn.....	Va.....	327 M Street.
Sisco, Henry Nathaniel.....	D. C....	2 Iowa Circle.
B.A., 1898, Battle Creek College.		
Sorensen, Antone Christian.....	Utah... ..	1132 12th Street.
Sorrell, Clarence Holden.....	D. C....	244 8th Street, S. E.
Vasenius, Frederick Walter.....	Finland.	Takoma Park.
Warriner, William Royall.....	Va.	1016 15th Street.
Weiler, George Leo.....	Utah... ..	1132 M Street.
Willis, John Mitchell.....	W. Va.. ..	1110 New York Avenue.
Wood, Will Pleasant.....	Ohio. . .	431 10th Street.

Second Year.

Athey, Thomas Franklin.....	Mo.....	3107 Wisconsin Avenue.
LL.B., 1901, Georgetown University.		
Avery, Frederick Scott.....	Mich....	1460 Corcoran Street.
Barsamian, Andraig Markar.....	N. Y....	806 10th Street.
B.A., 1890, Anatolia College.		
Brown, Frank J.....	Iowa. . .	"Augusta."
Browning, Andrew Johnson.....	Md.....	1322 L Street.
Bryan, William Alvin.....	Iowa... ..	203 6th Street, N. E.
Castell, Louis Bernard.....	D. C....	Soldiers' Home.
Phar. D., 1903, National College of Pharmacy.		
Dunmire, Roy Franklin.....	Penn... ..	1001 B Street, N. E.
Estes, Robert Montgomery.....	Ky.....	1347 L Street.

Name.	Legal residence.	City address.
Everett, Clarence Vivian	Md.....	War Department.
Everett, Ernest D.	Mo.....	23 Q Street, N. E.
A.B., 1899, Baker University.		
Forrer, Herbert Stratford	Ill.....	630 F Street, N. E.
Frazier, Frank Eugene.....	Wis....	1236 11th Street.
Garnett, Algernon Sydney.....	Va.	1021 Vermont Avenue.
Gehringer, George M.....	Penn...	1121 15th Street.
Gonzalez, Antonio C., Jr.....	N. Y....	1417 K Street.
Griffith, Thomas Everett	Penn...	718 4th Street, S. E.
Hanback, Irven Leonard.....	D. C....	44 N. Y. Ave., N. E.
Hart, George H.....	Penn....	2317 1st Street.
V.M.D., 1903, University of Pennsylvania.		
Higgins, Daniel W., Jr.....	Md.....	130 11th Street, N. E.
Horgan, Edmund Joseph.....	D. C....	733 13th Street.
Johannes, Dana Berry.....	D. C....	Takoma Park.
Lawrence, Charles Solomon.....	N. C....	Columbia Hospital.
Littlefield, John Ramsay	D. C....	Emergency Hospital.
McIver, Evander McNair	N. C....	310 C Street.
Ph.B., 1904, University of North Carolina.		
MacKnight, Robert Stanley	Mich....	2615 13th Street.
Mata, Carlos.....	Costa R.	16 3d Street, S. E.
Maxwell, Maurice Hopkins.....	Md.....	Sibley Hospital.
Molzahn, Herman E.....	Minn...	812 11th Street.
More, Frederick Clinton.....	Penn...	815 15th Street.
Neate, John Sweyn.....	D. C....	3009 Dumbarton Ave.
Noyes, Edward Rogers.....	D. C....	1014 S. C. Ave., S. E.
Ong, Harry Alfred	Ohio....	917 S Street.
Patterson, Orra Edgar.....	Ill.	Treasury Department.
Powell, Charles Elcon.....	D. C....	509 Spruce Street.
Pyne, Herbert Samuel.....	Utah ...	1132 12th Street.
Quick, Ralph Andre	Va.	428 H Street.
Rock, George Roscoe	N. J....	The Coywood.
Rozzelle, Keith Kistler.....	N. C....	207 8th Street, N. E.
Shacklette, William Sidney.....	Va.	U. S. Naval Hospital.
Sherwood, John Wesley.....	Md.....	136 11th Street, N. E.
Simons, Harry Emmerich.....	D. C....	252 A Street, S. E.
Smith, Ernest Wellington	W. Va. .	1825 F Street.
Smith, William Marion.....	Ky.....	1111 17th Street.
A.B., 1901, A. M., 1901, Georgetown College, Kentucky.		
Stilson, Joseph R.....	D. C. . .	126 C Street, S. E.
Tallmadge, Henry Hobart	Penn. . .	1356 Kenesaw Avenue.
Tayloe, Harry Marbury	Va.....	1121 17th Street.
Taylor, Edward.....	Ala.	1013 P Street.
B.S., 1903, in Pharmacy, Alabama Polytechnic Institute.		
Tewksbury, William Davis.....	Colo....	16 3d Street, S. E.

Name.	Legal residence.	City address.
Thompson, Lewis Royer.....	Penn. . . .	801 New Jersey Avenue. B.A., 1900, Ursinus College.
Turnbull, Samuel.....	Fla.	905 10th Street.
Walsh, Patrick Henry	Conn. . .	914 23d Street.
Weber, Frederick C.....	Ohio....	121 Md. Ave., N. E.
Weidemann, Clarence Conrad.....	D. C....	1237 Princeton Street.
Wheatley, Charles.....	Md.....	Geo. Wash. Hospital.
Wheeler, Arthur Joseph.....	Ill.	1923 K Street.
Wilhelm, Joseph	Ill.	1111 17th Street.
Willis, Harry Clay.....	N. C....	932 K Street.
Wolfe, James Thruston.....	Va.	202a G Street.
Wolfe, Rowland Daniel.....	Md.....	1335 H Street.

Third Year.

Armstrong, Arthur Durham.....	Ontario.	10 3d Street, N. E.
Barnesby, Walter Raleigh	Ill.	The Brunswick.
Barry, Joseph Francis.....	N. Y....	1012 13th Street.
Beale, Kenneth Foster.....	Md	Branchville, Md.
Biggs, Joseph Rozier	D. C....	1930 8th Street.
Bogan, Joseph Borrows.....	D. C....	606 Mass. Avenue.
Bower, Charles Franklin	S. Dak..	734 12th Street.
Boyd, William Alexander.....	N. C....	The Fredonia.
Bryson, Herbert James.....	Penn... 714	12th Street, N. E. B.A., 1903, The George Washington University.
Burket, Clare William.....	Penn... 1519	Kingman Place.
Carr, William Brown, Jr.....	Va.	1418 L Street.
Carter, Paul Irving.....	Cal.....	1418 L Street.
Chapman, John Madison.....	Md.....	Department of Justice.
Chipman, Cline N.....	Ky.....	1215 I Street.
Cliff, Benjamin F.....	N. C....	1300 Mass. Avenue.
Conklin, Coursen Baxter	N. Y... 1611	131h Street.
Coster, Leonard Martin.....	D. C....	403 2d Street, S. E.
Darnall, Moses Hubbard.....	Texas..	1618 15th Street.
Davis, Ezra McKnight	S. C....	937 K Street.
Dewey, Christian Henry.....	Ill.....	32 Seaton Street. M. Accts., 1899, Western Normal College, Shenandoah, Iowa.
Emery, James Armitage.....	Md.....	Rm. 60, The Olympia.
Garton, Alfred Clark.....	Ind	1902 H Street.
Grant Charles Vincent.....	Penn. . .	The Coywood.
Grant, John Lee.....	Va.	1313 H Street.
Habel, William Parker Herbst....	Penn. . .	618 22d Street. Phar. D., 1905, National College of Pharmacy.
Hart, John White.....	Mass. . .	949 S Street. B.A., 1896, Boston College.

Name.	Legal residence.	City address.
Hastings, John Emery	N. Y....	Census Bureau.
Haywood, John K.	N. Y . . .	1210 T Street.
B.S., 1896, Cornell University.		
Hoberman, Samuel	N. J....	908 12th Street.
Holmes, Robert Ward.	N. H....	1403 12th Street.
Howlett, Howard Henry.	La.	1313 Wallach Place.
Janney, James Garfield.	Mo.	U. S. Naval Hospital.
Johnston, Henry Vernon	D. C....	University Hospital.
Kearney, Henry Walper.	Va.	1013 M Street.
Kline, Lane Bruce.	Va.	519 Mass. Avenue.
Lamkin, Joseph Bayard	Ga.	216 New York Avenue.
Lee, Thomas Alexander	D. C....	1755 Church Street.
Levy, William Victor	N. J....	8 B Street, N. E.
McKee, Charles Bradford	Cal.	Y. M. C. A. Building.
McLean, Frank	D. C....	735 13th Street.
Mess, William Adam.	Ind	Garfield Mem. Hospital.
Phar., D. 1903, National College of Pharmacy.		
Meyer, Henry Adolph.	Penn... 212	8th Street, S. E.
Moffitt, H. Watson.	Ohio. . .	127 B Street, S. E.
Monk, Frederick Hinton.	N. Y....	1335 F Street.
Morris, Roy Thomas.	D. C....	1209 O Street.
Moser, William Calvert.	Penn... 1209	Soldiers' Home.
Neilson, Alexander, Jr.	Utah ...	512 B Street, N. E.
Rector, Frank Leslie.	Okla....	925 12th Street.
B.S., 1902, Agricultural and Mechanical College of Oklahoma.		
Schapiro, Louis.	Wis....	1016 13th Street.
Sims, William C.	La.	1029 Dartmouth Street.
Stephenson, Eugene	Texas. .	1382 E Street, N. E.
Stout, Henry	D. C....	United States Jail.
Smith, J. Allen	N. Dak .	1931 K Street.
Smith, Thomas Francis	Fla.	The Grand.
Stetson, Thomas.	D. C....	Nat'l Safe Dep., Savings and Trust Co.
Sullivan, Edward Francis.	Conn... 1019	10th Street.
Tastet, David Walker	D. C....	76 Seaton Street.
Terry, Philip Roy.	La.	1437 Kenesaw Avenue.
Thomas, William Joshua Groat.	D. C....	905 O Street.
Titus, Stanley Herbert	D. C....	Coywood Flat.
Tomlin, Timothy Harrington.	Mo.	1009 B Street, N. E.
Van Vliet, Frederick C., Jr.	N. J....	2002 G Street.
Waldecker, Franz Carl.	Kansas .	The Augusta.
Wallace, Clifton Robert.	Va.	1016 13th Street.
Waring, John Brockenbrough H.	Va	1830 Oregon Avenue.
Warner, Harry J.	Ill.	1105 13th Street.
B. S., 1901, University of Illinois.		

Name.	Legal residence.	City address.
Warner, Willis Henry.....	Mich....	1536 Kingman Street.
Watson, Charles Lyman.....	D. C....	1300 Mass. Avenue.
Weithas, Richard C.....	N. Y....	General Land Office.
Whamond, Frederick Gordon.....	Ill.....	1234 Duncan Street.
White, Eben Wesley	N. Y....	1236 11th Street.
Willets, David Gifford.....	N. J....	1320 I Street.
Ph.B., 1902, Wesleyan University.		
Williams, Richard Theodore.....	D. C....	1319 8th Street.
Wilson, Edward Comstock.....	N. Y....	U. S. Patent Office.
Yates, Robert Jackson.....	Va.....	1300 Pennsylvania Ave.

Fourth Year.

Ammerman, Charles Clark.....	N. Y....	911 N. C. Ave., S. E.
Arntzen, Julius Leo.....	Mo....	1404 L Street.
Battles, Samuel Lee.....	La.....	701 7th Street.
Bennett, Robert Anderson.....	Md....	832 13th Street.
Brecht, Nelson Duvall.....	D. C....	609 22d Street.
Brown, Ernest William.....	Conn. .	1310 Princeton Street.
Ph.B., 1897. Ph.D., 1900, Yale University.		
Burnell, William Barry.....	Oregon .	1519 Kingman Place.
Carswell, Fountain Lee.....	Ga.....	1832 Baltimore Street.
Clements, Lyman Jairus.....	Miss....	123 6th St., N. E.
Clifford, John Sullivan	N. H. . .	812 12th Street.
Compton, Arthur George.....	D. C....	1121 Roanoke Street.
Currie, James Daniel.....	Texas ..	1229 New York Ave.
Cuthbertson, Charles Wesley	D. C....	309 7th Street.
D.D.S., 1900, Columbian University.		
Davis, Alfred Preston.....	N. C....	1301 H Street.
M.D., 1894, Kentucky School of Medicine.		
Dollman, Clarence Mazurine.....	Va.....	1000 N Street.
Edmunds, Meade Randolph	Miss....	1217 K Street.
Forsythe, James Stue.....	Miss....	1119 6th Street.
Garrison, Philip Eugene.....	N. J....	107 K Street.
A.B., 1900, Wesleyan University.		
Goss, Ralph Montgomery.....	Ga.....	1902 H Street.
A.B., 1901, University of Georgia.		
Gow, James Robertson	Ohio....	122 D Street, N. E.
LL.B., 1894, Georgetown University.		
Grayson, Charles Shober.....	N. C....	1404 L Street.
Haggerty, James Edwards.....	N. Y....	1543 ½ 3d Street.
Hailman, Hubert Victor.....	D. C....	301 C Street.
Hamilton, Kosciusko.....	Tenn....	1203 11th Street.
Hankemeyer, Nathaniel William.....	Mass....	1018 14th Street.
B.A., 1885, Iowa Wesleyan University.		
B. D., 1890, Chicago Theological Seminary.		

Name.	Legal residence.	City address.
Hardesty, William Slaughter.....	W. Va..	16 4th Street, S. E.
Harrison, Charles A.....	Ill.....	1335 H Street.
Hartley, Clarence A.....	Ind.....	919 New York Avenue.
Heflebower, Roy Cleveland.....	D. C....	915 N. H. Avenue.
High, Daniel Lee.....	Md.....	416 M Street.
Hill, Paul Stanley.	Maine..	The Sherman.
B.A., 1901, Bowdoin College.		
Hooe, Robert Arthur, Jr.....	Va.....	1110 New York Ave.
Huber, Levi Houston.....	Penn. . .	906 I Street.
Humphries, John William.....	Va.....	318 3d Street.
Jorgenson, H. Christian	N. Y. . .	1404 L Street.
Ph.G., 1898, New York College of Pharmacy, Columbia University.		
Kebler, Lyman Frederic.. . . .	Penn . .	1322 Whitney Ave.
M.S., 1892, University of Michigan.		
Lanza, Anthony Joseph.....	N. Y. . .	1232 13th Street.
Laughlin, John Royer.....	Penn. . .	1460 Corcoran Street.
Lund, Herbert Z.	Utah...	107 2d Street, N. E.
McAfee, Larry Benjamin	Ind.....	House of Reps.
McConnell, James Henry	N. Y. . .	905 Florida Avenue.
Mebane, William Nelson.. . . .	N. C. . .	1217 K Street.
Middleton, Carroll Sewall.. . . .	Md.....	1404 L Street.
Montgomery, Herbert Bridger.....	Ohio....	1828 N. Capitol St.
Moore, Mead	Ky.....	The Brunswick.
Murdoch, Lester Hughes.	Texas . .	1713 4th Street.
Murphy, Timothy Francis.....	Maine..	The Sherman.
Nutting, Hugh	N. Y. . .	1460 Corcoran Street.
Phillips, Orlyn Sargent.....	Neb. . .	1215 12th Street.
Reeves, Arthur F.	N. C....	De Soto.
Repetti, Fred	D. C....	527 6th Street, S. E.
Phar. D., 1901, National College of Pharmacy.		
Ryan, Bernard St. Elmo.....	Va. . . .	1301 Corcoran Street.
Sheep, William Lloyd.....	N. C....	1300 Massachusetts Ave.
Simpson, Charles Augustus.....	Va.....	Wash. Asylum Hosp.
Smith, Stephen Harrison.....	Va. . . .	Alexandria, Va.
Smith, William Hamilton, Jr.....	D. C....	1314 Connecticut Ave.
Spire, Richard Lee.....	N. Y. . .	1353 F Street, N. E.
Stanley, Arthur Camp.....	Wis....	2330 Mass. Avenue.
Sterne, Charles Fague.....	D. C....	1823 Riggs Place.
Stevenson, Earle Clement.....	Neb. . .	1404 L Street.
B.S., 1899, Nebraska Wesleyan University.		
M.A., 1903, University of Nebraska.		
Sutton, Dallas Gilchrist	D. C....	921 19th Street.
Swain, Benjamin Hallowell.....	N. C....	1307 R Street.

Name.	Legal residence.	City address.
Tasker, Arthur Newman.....	D. C....	Children's Hospital. A.B., 1902, Wesleyan University.
Trent, Joseph Peterfield.....	Va.	1214 I Street.
Van Gasteel, Gerald.....	Penn....	320 Bond Building. LL.B., 1899, LL.M., 1900, Georgetown University.
Watson, John William.....	D. C....	Anacostia.
Wilcox, Horace Leroy.....	Penn. ..	2610 University Place.
Woods, Carl Warren.....	Vt.....	1211 13th Street.

Special.

Holden, Fred A.....	Mo.....	Treasury Department. B.A., 1900, Dixon College and Institute, Illinois.
Murray, John Donaldson.....	Md.....	1729 H Street. M.D., 1893, College of Physicians and Surgeons.
Washington, Richard.....	N. Y....	1115 I Street. M.D., 1894, Columbian University.

Review.

Browne, Rhodric Winfield.....	Mass...	908 S Street. M.D., 1905, The George Washington University.
Bush, Daniel P.....	Neb. ...	1316 11th Street. M.D., 1905, The George Washington University.
Didier, Frederick William.....	N. C....	302 H Street. M.D., 1904, The George Washington University.
Fisher, Raymond Adams	D. C....	595 B Street, N. E. M.D., 1905, The George Washington University.
Foster, Romulus Adams.....	D. C....	2207 Mass. Avenue. M.D., 1874, The Columbian University.
French, William Joseph.....	Minn...	1133 24th Street. M.D., 1905, The George Washington University.
Hovsepian, Armen.....	N. Y....	806 10th Street. M.D., 1905, The George Washington University.
Kuehn, Frederick W.....	Ind....	1129 5th Street. M.D., 1905, The George Washington University.
Pfender, Charles Alexander	Texas..	1013 M Street. M.D., 1905, The George Washington University.
Sawyer, Edward Whitmore.....	Mass. ...	20 Grant Place. M.D., 1905, The George Washington University.
Smith, Lucian Conway.....	Va.....	Alexandria, Va. M.D., 1905, The George Washington University.
Stiles, George Whitfield.....	Okla....	25½ Bates Street. M.D., 1905, The George Washington University. B.S., 1900, Oklahoma Agricultural and Mechanical College.

Summary.

CANDIDATES FOR THE M.D. DEGREE:

First year	62
Second year	60
Third year	75
Fourth year	68
	<hr/>
	265
Special	3
Review	12
	<hr/>
Total	280

FACULTY OF DENTISTRY.

Doctor of Dental Surgery.

First Year.

Name.	Legal residence.	City address.
Addison, William Richard	Wis....	Brookland, D. C.
Angelo, Guy Wilson	Va....	1236 13th Street.
Bakshian, Artakey Hagop	Turkey.	614 12th Street.
Bernhard, James Walter	Penn...	422 2d Street.
Birkhead, Fred Courtney	D. C....	300 C Street, N. E.
Boarman, Alan Smith	Md....	Treasury Department.
Britton, Emlyn J.	Penn...	Washington Barracks.
Cummings, Alfred William	Kans...	302 Indiana Avenue.
Deardoff, Edward Everett	Ill.....	22 R. I. Avenue, N. E.
Gaines, William Embre	Va.	1318 I Street.
Gash, Arthur Wellesley	R. I....	517 6th Street.
Grubbs, John A.	Va.	
Helmig, Casper Florian	Mo....	Gov't Printing Office.
Higgins, Charles Millington	W. Va..	301 D Street.
Hildreth, Walter Henry	N. Y. .	1333 L Street.
Houghtelin, William Clarence	Kans...	114 S Street.
Johnson, Harry Dow	Mo....	Takoma Park.
Murdoch, Herbert Spencer	Mo....	465 H Street.
Pearsall, George Richard	Mass...	1804 M Street.
Peck, George Francis	N. J....	1762 U Street.
Polini, Manuel	Costa R.	1918 I Street.
Ramirez-Torres, Manuel	P. R....	1235 6th Street.
Young, Henry Cissel	Md....	932 K Street.

Second Year.

Name.	Legal residence.	City address.
Allen, Clyde William	S. D....	1000 M Street.
Bell, Joseph M.	Ohio ...	

Name.	Legal residence.	City address.
Detmer, Charles Edwin	Mont...	P. O. Department.
Eskin, Jacob Sidney.....	D. C....	945 Md. Avenue, S. W.
Jackson, George Percival.....	N. Y....	641 East Capitol St.
Lawrence, William Francis.....	N. Y. ..	30 Randolph Street.
Macdonald, George Bertram Roper...	D. C....	612 Erie Street.
Martin, Francisco Jose	Costa R.	573 6th Street.
Merritt, William Allison.....	D. C....	203 8th Street, N. E.
Pflug, Charles S.....	Utah....	1110 16th Street.
Phillips, John Albert.....	Neb.	1215 12th Street.
Shea, James Edward	N. Y. ...	
Shoemaker, Charles Gardner.....	D. C....	3116 P Street.
Truett, Robert Finley.....	Ky.....	2523 University Place.
Vivian, John Taylor.....	Penn. ...	1203 East Capitol Street.
Wood, James Frank.....	Mich...	30 Randolph Place.

Third Year.

Ake, Adolphus Blair ...	Penn ...	809 N. J. Avenue.
Brittin, Roy Clay	Tenn...	P. O. Dep't.
Carroll, Walton C.....	Md.....	College Park, Md.
Chapman, Nathaniel	D. C....	1236 11th Street.
Clinton, Ralph Stuart.....	N. Y. ...	General Land Office.
Correll, Ralph S.....	Ohio ...	1215 K Street.
Davidson, Albert Sidney.....	Va.	120 4th Street, S. E.
Handy, Joseph William	Mo.....	68½ Bates Street.
Harrison, Marion Edwyn.....	Ga.....	1106 L Street.
Howser, Upton	Md.	1506 6th Street.
Humeston, C. Andrew.....	Conn...	620 I Street.
Murphy, Don Francis.....	D. C. ...	2447 18th Street.
Murray, Fred Grant.....	D. C....	209 G Street, N. E.
Neely, Frank Elton.....	Ind.	216½ Q Street.
O'Brien, William Patrick.....	Conn...	119 G Street.
Potter, Vergne W.	Wis....	1723 Penn. Avenue.
Prendergast, James Thomas	W. Va..	616 3d Street.
Taylor, John Winslow.....	Md.	112 4th Street, N. E.
Vandewall, Ralph Ivey.....	Wis....	1235 New York Avenue.
Waldo, George Selden.....	W. Va..	310 East Capitol Street.
D.D.S., 1902, Georgetown University.		
Woodruff, William Henry.....	N. Y. ...	1235 New York Avenue.

Special.

Butler, William Earle.....	W. Va..	1723 G Street.
D.D.S., 1905, The George Washington University.		
Cole, Seth Eugene.....	Vt.	700 H Street, N. E.
D.D.S., 1905, The George Washington University.		
Maphis, Frederick De Witt	Va.....	1012 12th Street.
D.D.S., 1905, The George Washington University.		

Summary.

CANDIDATES FOR THE D.D.S. DEGREE:

First year	23	
Second year	16	
Third year.....	21	
	<hr/>	60
Special		3
	<hr/>	
Total		63

DEPARTMENT OF LAW AND JURISPRUDENCE.

Bachelor of Laws.

First Year.

Name.	Legal residence.	City address
Adams, George Royal.....	Mass...	1211 13th Street.
Allen, Charles Louis.....	S. Dak..	Light House Board.
Allen, Walter Ellwood	Md....	Navy Department.
Ambrose, George Lewis	Mont...	716 20th Street.
Arlitt, John Louis.....	Texas...	2026 G Street.
Arundell, Charles Roger.....	D. C....	1636 R Street.
Atwell, Howard Johnson.....	Va.....	711 A Street, N. E.
Bailey, Fred John.....	Vt.....	Buckingham Hotel.
B.S., 1901, Middlebury.		
Banning, Archibald Tanner, Jr.....	N. Y. . .	925 New York Avenue.
B.A., 1904, Cornell University.		
Barndollar, Burton Hack	Penn...	3510 N. H. Avenue.
Barr, James.....	Wis	1760 Q Street.
Beall, John Christopher Wagner....	D. C....	1016 E. Capitol Street.
Beard, Burr Archibald.....	Iowa...	1122 Vermont Avenue.
Beazley, James Henry.....	Va.	618 M Street, S. W.
Bell, Colley Wood.....	D. C....	1731 T Street.
Bell, George Arthur.....	N. Y....	1212 Q Street.
B.S.A., 1904, Cornell University.		
Berger, Bertram Philip.....	N. Y....	2319 Penna. Avenue.
Betts, Frank Marshall.....	Ark	2120 G Street.
Biddle, Milton Scott.....	W. Va..	1013 20th Street.
Binsted, John Henry.....	D. C....	Conduit Road, D. C.
Biscoe, John Edward.....	D. C....	813 21st Street.
Grad. in Engi., 1904, Virginia Military Institute.		
Blake, Emmons Reed	Ill.....	1719 G Street.
B.A., 1904, University of Wisconsin.		
Block, Karl Morgan.....	D. C....	145 11th Street, N. E.
Boesch, Harry Luther.....	D. C....	616 E Street, N. E.

Name.	Legal residence.	City address.
Bowen, Frank Hunter.....	Mass ...	Dept. of Com. & Labor.
Bramhall, Thomas William.....	N. Y....	42 Randolph Street.
Brandenburg, Edgar Thomas.....	Penn....	915 French Street.
Brooks, Stanley Curtis	Ind....	1717 T Street.
Bruninga, John Herman.....	Ill.....	Patent Office.
Campbell, Paul.....	Tenn...	229 N. Capitol Street.
Carr, Ira J.	Mich...	217a P Street.
Carrington, Edmund.....	D. C....	Mt. Vernon Flats
Christensen, Andrew.....	Utah ...	1227 13th Street.
Church, Melville Durant	D. C....	1608 20th Street.
Cooke, H. Clay.....	Texas...	Y. M. C. A.
Corbett, Edwin Perry....	D. C....	929 10th Street.
Couden, Fayette Dickinson.....	Mass ...	1310 Columbia Road.
Coulon, Eugene Enet	La	1318 Whitney Avenue.
Crane, William Lucius.....	D. C....	208 T Street.
Cunningham, Boyd Crum	D. C....	133 C Street, N. E.
Curtis, William Barnard.....	N. Y....	Chevy Chase, Md.
Cutler, Harold Bert	Iowa ...	1633 Kenesaw Avenue.
Dane, Walter Alden	Vt	The Lenox, L Street.
B.A., 1903, University of Vermont.		
Davenport, Lewis Howard.....	N. Y....	2624 University Place.
Davidson, Arthur William.....	Ohio ...	28 Grant Place.
A.B., 1899, Western Reserve University.		
Davis, Horace Webber.....	Penn...	1907 H Street.
B.S., 1905, Washington and Jefferson.		
Davison, Ferdinand Donald.....	Va	1440 Bacon Street.
Day, Rufus Spalding.....	Ohio....	1301 Clifton Street.
Ellis, Leonidas Wilson	Ala.....	1008 I Street.
Elson, Ernest Benjamin.....	Neb....	903 13th Street.
Espinora, Gregorii E.....	Phil. Is.	War Department.
Flehart, Ward William.....	Ill.....	318 East Capitol Street.
Forbes, Harvey Dwight.....	N. Y....	1362 Irving Street.
Fraser, James Sword	D. C....	Takoma Heights.
Fravel, F. Russell.	Va.....	901 24th Street.
Gable, Charles Lewis.....	Penn...	807 H Street.
Gillam, De Witt Power.....	N. Y....	Cleveland Park, D. C.
Glaze, Albert Alonzo.....	Minn...	1310 9th Street.
Gonzalez, Antonio C., Jr. ...	N. Y....	1417 K Street.
Gower, William Jackson.....	Miss....	1335 Vermont Avenue.
Graves, Barak Thomas..	D. C....	1406 P Street.
Gray, James Oliver Baynham.....	D. C....	203 9th Street, S. W.
Green, Burton Richard.....	D. C....	1259 Kenesaw Avenue.
Guy, Walter Bohrer.....	D. C....	308 5th Street, S. E.
Ph.B., 1905, Lafayette College.		

Name.	Legal residence.	City address.
Haines, Milton.....	Ohio ..	508 11th Street. B.S., O. N. U.
Hardy, Edward Hugh.....	Ala.....	918 18th Street.
Hart, Timothy Joseph.....	N. Y. ..	1829 K Street.
Hartson, Clinton Henry.....	Wash. ..	1821 North Capitol St.
Henault, Thomas Ransel.....	D. C....	2016 G Street.
Hepburn, Louis Frederick Japy.....	Penn...	810 12th Street.
Hichborn, Philip Simmons.....	D. C....	1707 N Street.
Hindman, Albert C.	Penn...	1101 K Street.
Hinshaw, Howard Raymond.....	Neb	The Hamilton.
Holmes, Rexford Louie.....	Mo.	Civil Service Comm'n.
Hovey-King, Albert, Jr.....	Ill....	The Logan.
Hughey, Allen Harrison.....	Texas ..	Geological Survey. B.A., 1901, Vanderbilt University.
Hunt, Frank Edward	Ala.....	1015 K Street.
Ilustre, Eustacio S.....	Phil. Is.	War Department.
Jones, Charles Andrews.....	D. C....	1319 F Street.
Jones, Robert McGuire.....	Va.....	1516 21st Street. B.A., 1902, William and Mary College.
Kellett, Joe Cabot.....	Ala.....	The Geo. Wash. Univ. B.S., 1905, Agricultural and Mechanical College, Alabama.
Kester, Bruce Randall.....	Penn. ..	1024 14th Street.
Kiefer, Mahlon D.....	N. Y. ..	Department of Justice.
Kilgour, Robert Mortimer.....	Mont. ..	1210 N Street.
Kilpatrick, Howard Malcolm.....	Ga.....	307 Patent Office.
Keene, Elwood Ray.....	D. C....	Brightwood, D. C.
Knorr, Ernest August.....	D. C....	1618 14th Street.
Leary, James Wade.....	Mass...	St. James.
Leonard, John Mather.....	W. Va..	1201 5th Street.
Levine, Michael ...	Wis...	1016 13th Street.
Low, Fred Henshaw.....	D. C....	1730 Connecticut Ave.
McClellan, George Browning.....	Hawaii..	The Cumberland.
McDonald, A. James	Colo....	737 Princeton Street.
McIntyre, Donald Knott.....	N. J....	The Crosby.
McLean, Edward Beale.....	Ohio...	1500 I Street.
MacMillan, James Blaine.....	Penn. ..	1349 L Street.
McNeal, Ira Bennett	Penn....	1137 12th Street. A.B., 1898, Dickinson College.
McNeill, Frank Augustus.....	Va.	1310 9th Street.
Maguire, Charlie Hugh.....	Fla.....	Driscoll Hotel. B.S., 1905, University of Florida.
Mancha, Henry Howard.....	Mich. ..	1301 K Street.
Manghum, Henry Emmet.....	D. C....	1320 12th Street.
Manghum, James Mason.....	D. C....	1320 12th Street.

Name.	Legal residence.	City address.
Mason, Randolph.....	Md.....	1108 L Street.
Mayer, Theodore.....	D. C....	The Cumberland.
Melby, Charles Beach	Wis....	1217 K Street.
Micou, Richard Durrica.....	Va.	33, Home Life Bldg.
B.A., 1903, M.A., 1903, University of Virginia.		
Mikesell, Russell Everett.....	Ohio ...	Langdon, D. C.
Milburn, Henry Maurice	Mich. ..	1123 13th Street.
B.S., 1903, University of Michigan.		
Miller, Willian Lewis.....	D. C....	500 5th Street.
Mitchell, Paul.....	Penn. ...	516 13th Street.
B.A., 1905, Allegheny College.		
Mitchell, William Hadwen.	Mass....	Rm. 311, Patent Office.
B.S. in Electricity, 1905, Worcester Polytechnic Institute.		
Murphy, William Ashford.....	Wash..	1103 10th Street.
Nava, Leon Julio.....	Iloilo...	1024 17th Street.
Neal, Chester Frenholm.....	Mass. ...	1445 Massachusetts Ave.
B.A., 1905, Yale University.		
Neal, James William	Tenn. ...	P. O. Dept., Div. of Insp.
Nyemaster, Jesse Ray.....	Iowa ...	1221 13th Street.
Owen, Claud Worthington.....	Md.....	913 F Street.
Owens, Charles Francis.....	Md.....	908 15th Street.
Patterson, James Frosst.....	D. C....	618 Mills Building.
Perkins, Lewis Bryant.....	Va.	1119 I Street.
Peters, William J.....	Ohio ...	911 19th Street.
Phillips, Adon Daniel.....	N. Y. ...	1702 4th Street.
B.S., 1905, The George Washington University.		
Phillips, Ivon William.....	N. Y. ...	1702 4th Street.
Porter, Henry Gaylord.....	Cal.....	907 H Street.
Pretzfelder, Leon.....	Va.	413 N. St. Asaph Street, Alexandria, Va.
Prouty, Ward.....	Vt	The Portner.
Purcell, Armstead.....	D. C....	415 Florida Avenue.
Ramsey, George William.....	Ill. ...	1120 13th Street.
Rathbun, Don Seavey.. ..	Iowa....	208 Indiana Avenue.
B.S., 1904, Cornell University.		
Rehr, Paul Allen.....	Penn ...	1736 G Street.
Reighley, John Henry.....	N. Y. ...	1807 G Street.
Reinohl, David Weimer	N. Y. ...	3339 17th Street.
Riddleberger, Harrison Heath.....	Va.	U. S. Senate.
Rodier, Henry Tait	D. C....	1334 Wallach Place.
Rosario, Ignacio A.....	Phil. Is.	1024 17th Street.
Russell, Arthur Jasper.....	Penn ...	University Club.
Rutherford, Reginald	Md.....	922 French Street.
Scantling, Philip Lee.....	D. C....	1213 New Jersey Ave.

Name.	Legal residence.	City address.
Schofield, Henry Kendrick.....	Miss....	213 5th Street, N. E.
Sheridan, James MacDermott.....	Colo....	1353 Harvard Street.
Shoemaker, Abner Cloud Pierce.....	D. C....	612 14th Street.
Smith, Dyer.	Penn...	The Woodley.
M. E., 1903, Lehigh University.		
Smith, Ellison Griffith	S. Dak..	734 12th Street.
Smith, George Thomas.	Md....	Room 234, P. O. Dept.
Stein, Simon Bernard....	Mass. .	904 Westminster Street.
Stevens, Herbert Ainsworth.....	Mass....	904 12th Street.
Stevenson, Charles.....	N. Y....	1033 21st Street.
Stull, Howard William.....	Penn...	Takoma Park, D. C.
Sunderlin, Louis Kossuth	Iowa ...	1242 12th Street.
Swayze, Samuel.....	N. J....	1614 R. I. Avenue.
Taylor, Louis Ralph.....	Ill.....	1303 R Street.
Tracey, Frederick H.....	Ohio ...	614 M Street.
Turner, Robert Hite.	Va.	507 H Street.
Twyeffort, Frank Hubbard.....	N. Y....	1736 G Street.
Ulke, Titus	D. C....	411 15th Street.
B.S., 1885, Columbian University.		
E.M., 1889, Royal Academy Mines, Freiberg, Saxony.		
Van Emon, Walter C.....	Ill....	203 D Street.
Vierra, George.....	Hawaii .	2021 H Street.
Waters, William Clark	D. C....	5706 Brightwood Ave.
Weddell, Alexander Wilbourne.....	Va.	1901 I Street.
Weed, Theodore Linus.....	D. C....	1231 Harvard Street.
Wells, Charles Shelley	W. Va..	3422 13th Street.
West, Louis Herman.....	Ky.....	3315 Newark Street, Cleveland Park.
West, William Kemper.....	Ky.....	1718 Corcoran Street.
Wilson, Albert Theodore.....	N. Y....	Navy Department.
Willis, Robert Chadwick.	N. C....	212 8th Street, N. E.
B.A., 1901, Guilford College.		
Whalley, William John.....	D. C....	1218 Georgia Ave., S. E.
White, Richard Drum.....	D. C....	1803 Belmont Avenue.
Whitten, William Henry, Jr.....	Ill.....	1254 Columbia Road.
B.S., 1896, M.S., 1897, Massachusetts Institute of Technology.		
Wiggins, Ernest.....	S. C....	222, Post Office Dept.
B.A., 1899, Wafford College.		
Williams, James Arthur.....	Iowa....	615 5th Street, N. E.
Wilson, Ira Jay	Wis	1227 M Street.
Wood, Thomas	Ill.....	1905 Pennsylvania Ave.
Yocum, Wilbur Elmore.....	Fla....	1807 Phelps Place.
B.A., 1898, Florida Agricultural College.		

Second Year.

Acton, Robert Dow.....	Ill.....	Department of Justice.
Agnew, Albert Conant.....	Ind. Ter.	1213 N Street.
Alden, Henry Palmer	D. C....	1308 S Street.
Amiss, T. Brooke, Jr.....	N. Y....	The Plymouth.
Andrews, Edward Hank.....	Mich. . .	House of Reps.
Babcock, James Earle.....	D. C....	709 G Street.
Babcock, William.....	D. C....	709 G Street.
Baker, Arthur George.....	Mass....	Room 23I, P. O. Dept.
B. A., 1903, Amherst College.		
Ballard, William Reed	Ind.....	Rm. 103, Patent Office.
Barker, William Judson.....	D. C....	122 13th Street, S. E.
Barth, Fred.....	Ky.....	Post Office Dept.
Bowyer, Joseph McCarter	Penn....	The Mendota.
B.S., 1904, Princeton University.		
Braddock, Ernest Reeves.....	Md.....	1400 6th Street.
Brearton, James Mitchell.....	Ill.....	767 10th Street, S. E.
Brown, Herbert Daniel.....	N. Y....	3360 Mt. Pleasant Street.
Buffington, William E.....	Penn...	1501 11th Street.
Burlingham, Lloyd.....	N. Y....	903 13th Street.
Burriss, John Murray.....	Kans...	Room 436, P. O. Dept.
Carnes, Samuel Clifford	Ohio ...	921 G Street.
Christian, Charles Frederick.....	Ind.....	1108 New York Avenue.
Collins, Frederick Albert.....	D. C....	125 10th Street, N. E.
Crain, Kenneth.	Ky.....	1829 G Street.
B. A., 1902, University of Louisville.		
Deller, Lester K.....	Ind.....	2017 Hillyer Place.
Duffey, Louis Nelson.....	Va.....	Alexandria, Va.
Dunning, Daniel Alfred	Utah... .	3267 N Street.
Fitz Gerald, Shepler.	D. C....	3515 Eslin Avenue.
Freeman, Paul.....	Ohio... .	1816 S Street.
Gammon, Nathan.....	Tenn... .	929 K Street.
Ganett, George Everett.....	Va	8 8th Street, S. E.
Garner, Hencelford Noel.....	Va.....	413 S Fairfax Street, Alexandria, Va.
Gerry, Charles Fusting.....	Md.....	Room 41, Sun Bldg.
Gilchrist, Walter Schell.....	D. C....	652 Mass. Avenue, N. E.
A.B., 1902, Georgetown University.		
Giles, Louis Edward	Mich... .	1608 15th Street.
B.S. in E.E., 1902, Columbian University.		
Glennan, Arthur Wyman.....	Md.....	Chevy Chase, Md.
Gordon, Alexander.....	Penn... .	Cedarhurst, Univ. Hill.
B. A., 1901, Yale University.		
Gusack, Samuel Victor.....	N. Y. . .	921 Westminster Street.
Guyton, Joseph Daniel.....	Miss....	1715 G Street.
B. S. in Engineering, 1901, Mississippi Agricultural and Mechanical College.		

Name.	Legal residence.	City address.
Hallam, Paul Rankin	Ky.....	504 Seward Square, S. E.
Hand, Robert G	Miss....	1216 Princeton Street.
B. S., 1899, Mississippi Agricultural and Mechanical College.		
Harding, Lee Robert	Iowa....	Otterbourne, Md.
Hattersley, Ralph Marshall	Ohio ..	1317 Q Street.
Henkel, Myron Freeman	Ill.	706 20th Street.
Hogg, William Leonard	Colo....	1217 K Street.
B. A., 1904, Colorado College.		
Hoover, Dickerson Naylor, Jr.	D. C....	413 Seward Square, S. E.
Huffman, Charles Jones	Ill.....	136 D Street, S. E.
Hunt, Risley G.	D. C....	2110 H Street.
Irion, Harry	Colo....	414 A Street, S. E.
Johnson, Charles Edward	D. C....	406 Jackson Street.
Jones, William Phelps	N. Y. ..	920 C Street, N. E.
E. E., 1898, Columbia University.		
Keeler, Earle Leslie	Mass....	918 H Street.
Kennedy, John Thomas ..	Penn...	911 19th Street.
Langmade, Robert Grover	N. Y. ..	830 12th Street.
Law, Frank A. Jr.	D. C....	1627 14th Street.
Leech, Wilmer Ross	Md.....	2302 1st Street.
Lees, Fred	Kans. ..	614 Md. Ave., N. E.
B. A., 1900, Washburn College, Topeka, Kansas.		
Lewis, Henry Latané	Md.	1413 G Street.
Lewis, William J.	N. H. ...	303 7th St., N. E.
Lundy, Elmer Johnston	Ark.....	1613 13th Street.
B. S., 1899, Dickson College.		
McCathran, Wallach A.	D. C....	916 Penn. Avenue, S. E.
McLean, Hubert Gilbert	Mich....	M. S. O., War Dept.
Manning, Lawrence W.	Ky.....	1223 15th Street.
Mead, Thomas L., Jr.	Ohio ..	3022 R Street.
Ph. B., 1901, Western Reserve University.		
Melby, Charles Beach	Wis....	1217 K Street.
Merrill, Henry P.	D. C....	1760 Willard Street.
Moore, Robert Irwin	Tenn...	1322 L Street.
B. A., 1898, Vanderbilt University.		
Morris, Charles Meyer	Utah ..	1132 12th Street.
Packard, Edwin Augustus	Mass....	Patent Office.
B. S., 1899, Massachusetts Institute of Technology.		
Patchin, Ira H.	Iowa ...	916 19th Street.
Patterson, Mathew Warren	Ark.....	1391 F Street, N. E.
Peake, William Thomas	D. C....	121 10th Street, N. E.
Prettyman, William Forrest	Md. ...	Rockville, Md.
A. B., 1903, M. A., 1904, Randolph-Macon College.		
Roberts, Ora Herbert	Ind....	708 10th Street.
Roche, Sidney	D. C....	1325 1st Street.

Name.	Legal residence.	City address.
Ross, Montague Sutton.....	Tenn... 815	12th Street. B.A., 1903, University of Nashville.
Salsbury, Burt Freeman.....	Va.	Merrifield, Va.
Schommer, John B.....	Wis.....	1215 I Street.
Smith, Albert Edward.....	Wis.....	4426 8th Street. L.L.B., Howard University.
Smith, John Abdiel.....	Penn... 1108	New York Avenue.
Stadden, Corry Montague.....	Ohio ... 3002	13th Street.
Starek, Frank Jerome.....	Ohio ... 2024	G Street.
Steenerson, Benjamin Gilbert.....	Minn. .. 1902	H Street.
Stewart, Edward S.....	Md..... 1121	8th Street.
Sutherland, William Alexander.....	D. C... 1700	L Street. B. Sc., 1898, Agricultural and Mechanical College, New Mexico.
Swank, Walter Ray.....	Colo... 804	19th Street.
Taylor, Rowland Corwin.....	Ohio. . . 921	G Street.
Thomas, Enfield Hoge.....	Va..... 937	I Street.
Tibbets, Frank James, Jr.....	D. C.... 1636	17th Street.
Thomson, William Enos.	Ill.....	Treasury Department.
Thorpe, Merle Harold.....	Cal..... 2024	G Street.
Toohey, Frank.	Mass.... 800	L Street.
Tuckerman, Walter R.	D. C.... 1515	Mass. Avenue. B.A., 1903, Harvard University.
Tutwiler, Strudwick Young....	Ala.... 929	K Street.
Tyler, Frank E.	Miss....	U. S. Geol. Survey.
Van Smith, George Attson.....	Minn.. 131	A Street, N. E.
Wallace, Reuben Staten.....	Md..... 206	Elm Street.
Washington, Richard Blackburn.....	Va.	Library of Congress.
Wayman, Edward F., Jr.....	Va. 1013	8th Street.
Weeks, Edward Mitchell.....	Penn... Cleveland	Park, D. C.
Weir, Taylor B.....	Va.....	Dept. of Agriculture.
Whipple, Frederick R.....	D. C....	The Don Carlos.
Williams, Henry Trumbull.....	Mass ...	Patent Office. B.S., 1903, Harvard University.
Williamson, James McGowan.....	D. C.... 1210	S Street.
Winbourn, Robert Emmet.....	Colo.... 1019	P Street.
Woodward, Franklin Tuthill.....	D. C.... 915	S Street. B.A., 1901, Dickinson College.
Woolverton, William Hand.....	Miss.... 1216	Princeton Street. B.A., 1903, Dartmouth College.

Third Year.

Alden, Levi Russell.....	D. C.... 809	L Street. A.B., 1903, A.M., 1904, Columbian University.
Armstrong, Ernest Patterson.....	Iowa... 711	K Street. L.L.B., 1902, National University.

Name.	Legal residence.	City address.
Badger, Carl A.....	Utah....	De Soto, Room 31.
Barker, John Richard	N. C. . .	1101 13th Street.
Barton, Harry R.....	S. Dak..	1727 Grant Street.
Bates, Luther Eugene.....	Miss....	23 1st Street, N. E. B.A., 1898, Mississippi College.
Behymer, Glenarvon... ..	Cal.....	1101 13th Street.
Beeler, Adam M	Ind.....	1902 H Street.
Biggs, John Sherman.....	Kans...	1241 Evarts St., N. E. LL.B., 1901, Kansas City Law School.
Blessing, Riley Andrew	W. Va..	151 C Street, N. E.
Booth, Clarence M.....	Ind.....	2002 G Street.
Bouc, Charles Norman	Md.....	Rockville, Md.
Burnstine, Marcus Henry.....	D. C....	1122 13th Street.
Busch, Simon Henry	Minn..	735 13th Street.
Butz, David Hazen	Penn...	510 8th Street, S. E. B.A., 1895, Lafayette College.
Cheney, Morton Mead.....	N. H....	Library of Congress.
Clark, Frederick Francis.....	D. C....	504 E Street.
Codington, Arthur Henry.....	Ga.....	150 E Street, N. E. LL.B., 1902, Mercer University.
Coffin, Charles Buxton.....	S. C....	1116 15th Street.
Cohen, Louis	Wis....	702 19th Street.
Cooke, Levi.	N. Y...	1305 30th Street.
Cox, Percy Murtaugh	Md.. ...	Department of Justice. M.D., 1899, Columbian University.
Crist, Lucien Bainbridge.....	D. C....	The De Soto.
Croissant, Victor George.....	Wash...	18 Tenn. Ave., N. E.
Cross, Arthur Emerson.....	Wash...	1121 I Street. LL.B., 1905, University of Washington.
Cunningham, John Benedict.....	W. Va..	822 Connecticut Avenue.
Dauids, Berkeley Reynolds	Penn...	1523 L Street.
Davidson, Herbert King, Jr.....	Mass. .	921 11th Street.
Davis, Arthur Llewellyn.....	Ill.....	1970 California Avenue.
Dobbins, Donald Claud.....	Ill.....	Post Office Dept.
Douglass, Lloyd Augustus.....	D. C....	1112 6th Street.
Dresser, Jasper Marion.....	Penn. .	1722 Mass. Avenue. B.S., 1890, Purdue University.
Fisher, Arthur Ames.....	D. C....	Treasury Department.
Flowers, Allen Gilbert.....	S. C....	The Carolina.
Frayser, Frank.	Va.	Room 224, P. O. Dept.
Ford, Edgar Werner.....	N. Y....	824 9th Street, N. E.
Ford, Harvey.....	W. Va..	2115 S Street.
Fowler, Wilbur Walter.....	Mass...	3409 Holmead Avenue.
Fullam, Edwin Winfield.....	N. J. . .	War Department.

Name.	Legal residence.	City address.
Fuller, Charles Franklin.	N. Y....	718 6th Street, N. E. B.S., 1901, The George Washington University.
Furbershaw, Walter Louis.	N. Y. . .	Pension Bureau.
Garnett, Philip.	N. H. . .	1347 U Street.
George, Horace Reid.	Penn. . .	941 O Street.
Goodall, Milo B.	Wis.	427 15th Street, N. E.
Groomes, Leonard Weer.	Md.	1405 New York Avenue.
Handy, Wallace Stuart.	Del.	The Geo. Wash. Univ.
Harra'son, Morris K.	Ga.	1016 15th Street.
Hazard, Elmont Bibb.	D. C.	320 E Street, N. E.
Hodges, Lewis.	D. C.	1607 Kenesaw Avenue.
Hopkins, Fred Merriam.	Mich. . .	U. S. Patent Office. B.S., 1902, University of Michigan.
Hurd, Sumner Webster.	N. J.	427 4th Street.
Jones, Willie Parker.	Mass.	Dept. of State. B.A., 1898, Tufts College.
Jordan, Cornelius Hughes.	Tenn. . .	The Fredonia.
Kent, Frank Joseph.	Ind.	Colorado Building. B.A., 1902, Bethany College.
Keyes, Walter Edwin.	Oregon. .	1103 13th Street. L.L.B., 1905, Oregon University of Law.
Lerch, Harry Ferdinand.	D. C.	1320 F Street.
McGee, Leroy A.	Wis.	1215 Lamar Place.
McLean, Donald Holman.	N. J. . . .	2002 G Street.
McNamee, Tom Crane.	S. Dak. .	Driscoll Hotel.
Mahon, John Wilfred.	Ohio. . .	The Carlisle.
Meyers, Herbert Walter.	Md.	Pension Bureau.
Milhado, Alexander Gordon.	D. C.	1111 17th Street.
Muhleman, Donald Cassius.	D. C.	1512 8th Street.
Moore, Frederick McCullough.	Md. . . .	Stratford Hotel.
Morris, Charles Wesley.	D. C.	The Leamington.
Morris, Jackson.	Ky.	Internal Revenue Bureau
Munn, Henry Farwell.	D. C.	1334 R Street.
Neal, Albert Boyd.	Tenn. . .	War Department.
Newmyer, Alvin Leroy.	D. C.	2215 14th Street.
Nixon, John Thomas.	N. H. . .	921 11th Street.
Paddock, William Waterman.	Iowa.	1521 Vermont Avenue.
Parsons, George W.	Mich. . .	Post Office Dept.
Phillips, Francis John.	N. Y.	Bur. of Immigration.
Phillips, Peter John.	Md.	2021 H Street.
Pollock, Andrew Gray.	Va.	207, The Plaza.
Price, James Hardy.	S. C. . . .	222 Kentucky Ave., S.E.
Prince, Earle Seaton.	D. C. . . .	742 New Jersey Avenue.

Name.	Legal residence.	City address.
Quigley, Richard John Francis.....	N. Y....	506 1st Street.
Reed, Edward Leckey.....	Ohio. . .	1003 F Street.
Rhoads, William Levengood.....	Penn....	2824 Brightwood Ave.
Richardson, Daniel J.....	N. Y....	240 12th Street, S. E. Ph.B., 1903, Syracuse University.
Riddell, Charles Francis.....	Wash... U. S. Patent Office. A.B., 1901, Leland Stanford University.	
Sams, Eldon E.....	Iowa....	1306 L Street. Ph.B., 1897, Nebraska Wesleyan University.
Sanders, Franklin Oliver.....	Penn ...	706 11th Street.
Sell, John Carlisle.....	D. C....	139 C Street, N. E.
Shaw, William Furman..	Ky....	919 New York Avenue.
Shelton, Leonard G.....	Miss....	1715 G Street. B.S., 1901, Mississippi Agricultural and Mechanical College.
Shepherd, Arthur Charles.....	Wis	Hyattsville, Md.
Shipper, Alva Hamilton.....	W. Va..	211 C Street.
Shore, Howard J	N. C....	1002 H Street, N. E.
Simpson, James T.	N. H... Treasury Department.	
Sleman, Paul Edwin.....	D. C....	3114 16th Street.
Smith, James Cheetham.....	Penn... 1208 E. Capitol Street.	
Sommers, Walter Allwood.....	N. Y. . .	657 F Street, N. E. LL.B., 1905, St. Lawrence University.
Starr, David Judson.....	Ohio ...	1725 De Sales Street.
Steele, Benjamin U.....	Ky.....	303 E Street, N. E.
Stern, Morris.....	Wis	The Lincoln.
Stetson, Frank... ..	D. C....	1324 12th Street.
Swingle, Edwin Allan.....	D. C....	807 T Street.
Taggart, Giles Russel.....	N. J....	Bureau of Corporations. B.S., 1900, Columbian University.
Tilden, Myron Winfield.....	Conn... 1101 13th Street.	
Towles, Therrett	D. C....	3416 14th Street.
Transom, Frederick.....	Penn ...	2121 1st Street. B.S. in M.E., 1895, University of Pennsylvania.
Voorhis, Charles D.	N. J ...	Hotel Cairo.
Waite, William Franklin.....	Ala....	2831 11th Street.
Walker, Horacio	Chile... Chilean Legation.	
Wallis, William James.....	N. H... 417 A Street, S. E. B.A., 1894, Dartmouth College. A.M., 1899, Columbian University.	
Weitzel, Fred. William.....	Ky.....	1317 Q Street.
Whitcomb, David.....	N, Y....	Cosmos Club. B.A., 1900, and M.A., Amherst College.
Williams, James Dawson.....	Md....	602 11th Street. B.A., 1902, Western Maryland College.

Name.	Legal residence.	City address.
Wilmeth, Warner L.....	Texas. .	1246 Md. Ave., N. E.
Wilmot, Wilson Eardley.....	N. Y....	2224 F Street.
Wilmoth, Grover C.	Texas...	500 T Street.
Woods, Walter Orr.....	Kans...	913 Massachusetts Ave.
Woodwell, William Herbert...	N. H...	418, Bond Building.

Special.

Ammen, William Wetherall.....	Md.....	Room 325, Patent Office.
B.A., 1903, Johns Hopkins University.		
B.S., Naval Architecture, 1905, Massachusetts Institute of Technology.		
Arroyo, Julian Aveline.....	D. C....	1317 F Street.
LL.D., 1897, Central University, Venezuela.		
Boyd, William Rufus, Jr.....	Texas...	The Litchfield.
Brosius, Samuel Martin	D. C....	McGill Building.
LL.M., 1904, The George Washington University.		
Clark, Gilbert Andrew.....	D. C....	605 F Street.
Corpus, Rafael.....	Phil. Is.	1308 R Street.
Cothrin, Foye.	Cal.....	2024 G Street.
Davidson, Edwin R.....	Mass....	1006 Massachusetts Ave.
LL.B., 1905, Georgetown University.		
Dodd, Walter Farleigh	Fla.	210 A Street, S. E.
A.B., 1898, Florida State College.		
B.S., 1901, Stetson University.		
Ph.D., 1905, University of Chicago.		
Faulkner, Robert Nelson....	Cal. ...	Pension Office.
LL.B., 1904, LL.M., 1905, National University.		
Harding, Harvey Almon..	Neb....	524 D Street, N. E.
Lewis, Junius Poullain.....	Ga.....	1316 L Street.
B.A., 1902, University of Georgia.		
Mears, George Edwin	Mass ...	1717 De Sales Street.
B.A., 1904, Williams College.		
Phair, Philip De Witt.	Maine...	131 A Street, N. E.
B.Litt., 1904, Trinity College.		
B.A., 1905, Harvard University.		
Richmond, Carl Adams.....	Cal.....	1241 Princeton Street.
B. S., 1900, Pomona College.		
Staples, Eugene Washington.....	Maine...	814 11th Street, N. E.
Swan, John Thomas.....	D. C....	1340 R Street.
Whitehead, Robert F.	Va. ...	1427 R Street.
M.A., 1893, University of Virginia.		
Whittinghill, Jackson Pate	Ky.....	1313 N Street.
B.S., 1903, Agricultural and Mechanical College, Kentucky.		
Woolsey, Lester Hood.....	N. Y. ...	1404 Park Street.
B.A., 1901, Harvard.		

Review.

Name.	Legal residence.	City address.
Anderson, Edward Dunning.....	D. C....	2813 14th Street.
LL.B., 1903, M. P. L., 1904, Columbian University.		
Baldwin, Julius Lyman	N. Y....	1358 Kenyon Street.
LL.B., 1905, The George Washington University.		
Bell, David Wilkinson.....	N. C....	1331 Kenesaw Avenue.
LL.B., 1903, Columbian University.		
LL.M., 1905, Georgetown University.		
Beller, James William	W. Va..	1246 Princeton Street.
LL.B., 1905, The George Washington University.		
Bone, Leonie.....	Ill.....	Pension Office.
LL. B., 1905, The George Washington University.		
Brewer, John	Md.....	631 Pennsylvania Ave.
LL.B., 1903, Columbian University.		
Browne, Frederick William.....	Iowa ...	1104 12th Street.
LL.B., 1901, Columbian University.		
Butler, Timothy John	Kans ...	1300 L Street.
LL.M., 1901, D.C.L., 1902, Columbian University.		
Cole, Charles Orlando. ...	Okla ...	Treasury Department.
LL.B., 1905, The George Washington University.		
Cutting, Silas Henry.	Mich. ..	1305 H Street.
LL.B., 1905, The George Washington University.		
Davis, Charles William	Kans...	Room 13, Home Flats.
LL.B., 1903, Columbian University.		
Day, Leonard.....	Mass. ...	U. S. Patent Office.
† B.S., 1902, Worcester Polytechnic Institute.		
LL.B., M.P.L., 1905, The George Washington University.		
Fox, Carlton.....	N. J....	340 Indiana Avenue.
LL.B., 1905, The George Washington University.		
Franklin, Blake.....	Ill.....	General Land Office.
LL.B., 1904, Columbian University.		
Fulgham, Hamden McKey.....	Miss....	1347 L Street.
LL.B., 1903, Columbian University.		
Gaddess, Eugene L.....	Va.. ...	1419 R Street.
LL.B., 1905, The George Washington University.		
Goode, Mark.....	Ill.....	1319 Emerson Street.
LL.B., 1905, The George Washington University.		
Graves, J. Morris.....	Mo	1103 17th Street.
LL.B., 1905, The George Washington University.		
Hall, Mortimer Beecher.....	Md.....	Gaithersburg.
B.A., 1896, Columbian University.		
LL.B., 1905, The George Washington University.		
Hanes, Harvey Earlton.....	Va.....	Room 152, Navy Dept.
LL.B., 1905, The George Washington University.		

Name.	Legal residence.	City address.
Harris, Nathaniel.....	Texas ..	The Montgomery.
B.A., 1900, A.M., 1901, Baylor University.		
M.A., 1902, Yale University.		
L.L.B., 1904, The George Washington University.		
Hellerstedt, Carl John.....	Tenn. ...	1220 W Street.
L.L.B., 1905, The George Washington University.		
Henderson, William Bennett.....	Ky	22 Grant Place.
L.L.B., 1892, Cumberland University.		
L.L.M., 1904, Columbian University.		
Hengstler, Herbert C.....	Ohio ...	38 Florida Avenue.
L.L.B., 1905, The George Washington University.		
Hickox, Birdette P.....	Mich ...	Room 123, Treas. Dept.
L.L.B., 1905, The George Washington University.		
Hills, Ralph Warren	Ohio. ...	The Marlborough.
B.S., 1897, Columbian University.		
L.L.B., 1905, The George Washington University.		
James, Charles G	Ohio. ...	1331 Vermont Avenue.
L.L.B., 1905, The George Washington University.		
Jenks, Royal Granville.....	La.....	951 Massachusetts Ave.
L.L.B., L.L.M., 1904, Columbian University.		
Johnson, Walter Slicer	Wash...	1746 Willard Street.
L.L.B., 1905, The George Washington University.		
Leach, Boynton McConnel	Va.	1804 M Street.
B.S., 1901, L.L.B., 1904, The George Washington University.		
Logan, Charles Bryce.....	.....	.....
L.L.M., 1905, The George Washington University.		
McCormick, Alexander Hugh, Jr.....	Va.	2910 14th Street.
L.L.B., 1905, The George Washington University.		
McMahon, John Patrick.....	D. C....	1441 S Street.
L.L.B., 1905, The George Washington University.		
Marine, Clarence Leroy.....	Neb ...	The Portner.
L.L.B., 1905, The George Washington University.		
Moore, Langdon	N. Y....	1755 P Street.
L.L.B., M.P.L., 1905, The George Washington University.		
Newmyer, Edwin Jonathan.....	Mo.....	1225 N Street.
L.L.B., 1905, The George Washington University.		
Patterson, Morton C.	Tenn...	824 G Street, N. E.
L.L.B., 1892, Columbian University.		
Pitts, George Bassett.. ..	D. C....	507 E Street.
L.L.B., 1904, Georgetown University.		
M.P.L., 1905, The George Washington University.		
Plant, Arthur George.....	D. C....	Care of Trad'rs' Nat. B'k.
L.L.B., 1901, Columbian University.		
Plumley, Walter Preston.....	D. C....	Rm. 14, Atlantic Bldg.
L.L.B., 1901, Columbian University.		

Name.	Legal residence.	City address.
Reinohl, W. Parker.....	D. C....	912 F Street.
LL.B., 1901, Columbian University.		
Rickard, James B.	Hawaii.	Office Sec. of Interior.
LL.B., 1905, The George Washington University.		
Russell, William H.....	Penn. ..	1240 Princeton Street.
LL.B., 1904, The George Washington University.		
Scott, Thomas Allen	Mo.....	1245 Evarts St., Br'kl'd.
LL.B., 1904, Columbian University.		
B.S., 1893, Kansas Normal College.		
Searle, William Daniel.....	N. Y....	1131 12th Street.
LL.B., 1905, The George Washington University.		
Smith, Homer A. A.....	Colo....	721 Princeton Street.
Ph.B., University of Chicago.		
LL.B., 1901, Columbian University.		
Snell, Arthur Veeder.....	N. Y....	3016 Dumbarton Ave.
B.L., 1899, Hobart College.		
Ph.B., 1900, University of Chicago.		
LL.B., 1905, The George Washington University.		
Stutler, Delmas Clay.....	W. Va.,	316 M Street.
LL.B., 1905, The George Washington University.		
Tharin, Frank.....	S. C....	War Department.
LL.B., 1893, LL.M., 1902, Columbian University.		
Waterman, Jason.....	Mich...	64½ Bates Street.
LL.B., 1903, The George Washington University.		
Wilson, Thomas Benton.....	Wash ..	2320 1st Street.
LL.B., 1902, Columbian University.		
Young, Eugene.....	D. C....	804 7th Street.
LL.B., 1905, The George Washington University.		

Master of Laws.

Allis, Frank Coy.....	N. Y....	936 K Street.
LL.B., 1903, Cornell University.		
Barker, Frederick Francis.....	Texas ..	War Department.
LL.B., 1891, Cambridge University, England.		
Brooke, John Cooke.....	Va.....	820 6th Street.
B.S., 1901, Virginia Polytechnic Institute.		
LL.B., 1905, Georgetown University.		
Bruff, James L.....	N. J....	820 6th Street.
LL.B., 1903, University of Virginia.		
Clark, Walter.....	N. C....	1337 L Street.
LL.B., 1905, University of North Carolina.		
Gaskill, James Robbins, Jr.....	N. C....	2024 G Street.
LL.B., 1905, The George Washington University.		
Gilmer, Branner.....	N. C....	1337 L Street.
LL.B., 1905, University of North Carolina.		

Name.	Legal residence.	City address.
Jenkins, Charles	Ky.....	65 N Street. L.L.B., 1903, Georgetown University.
Landry, Luke Valcour... ..	La.....	1519 Rhode Island Ave. L.L.B., 1896, Tulane University.
McDuffie, Phillips Campbell.....	Md....	1016 13th Street. L.L.B., 1905, Wake Forest College, N. C.
Williams, William Kingsley.....	Wyo....	807 L Street. B.A., 1900, Yale University. L.L.B., 1903, University of Nebraska.

Review.

English, Walter Charles.....	D. C....	2907 P Street. L.L.M., 1905, The George Washington University.
Flournoy, Richard Wilson.....	Md.. ...	State Department. L.L.B., 1904, Columbian University. L.L.M., 1905, The George Washington University.
Mitchell, Andrew S.....	Ohio ...	921 8th Street. L.L.M., 1904, Columbian University.

Master of Patent Law.

Bayard, Fairfax.....	D. C....	1325 Kenesaw Street. L.L.B., National University. C.E., Lehigh University.
Beeler, George Lowman.....	Ill.....	807 B Street, S. E. B. S., 1899, The Columbian University. L.L.B., 1902, National University.
Bon Durant, Edgar Hamilton....	Iowa....	Mt. Rainier, Md. L.L.M., 1903, National University.
Boughton, Walter White	Ohio ...	Patent Office. L.L.B., 1905, National University. B.S., 1902, Case School of Applied Science.
Brumbaugh, Noah J.....	Mo.. ...	Patent Office. B.A., 1896, Harvard University. L.L.B., 1904, National University.
Byllesby, Ellis Buchanan.....	D. C....	1404 M Street. L.L.B., 1905, National University.
Carnes, John Henry.....	N. J....	Patent Office. L.L.B., 1904, National University.
Church, Durant.....	D. C....	603 McGill Building. L.L.B., 1905, Notre Dame.
Comstock, Nathan.....	Wis	9 Grant Place. L.L.B., 1900, University of Wisconsin.
Cook, Richard John	Ark.....	2024 G Street. L.L.B., 1905, National University.
Drysdale, James Murray.....	Colo....	Patent Office. L.L.B., 1905, National University.

Name.	Legal residence.	City address.
Dyke, Herbert H.....	Ill.....	53½ Bates Street.
B.A., 1899, Marietta.		
M.S., 1903, Columbian University.		
L.L.B., 1905, National University.		
Fairbank, Clair Wesley.....	Minn...	3107 16th Street.
B. S., 1904, Columbian College.		
L.L.B., 1905, National University.		
Glass, Roy Chester.....	D. C....	1524 Columbia Street.
L.L.B., 1905, National University.		
Griffin, Carles Parker.....	Cal. ...	1108 8th Street.
B.S., 1901, University of California.		
L.L.B., 1905, National University.		
Hutchinson, George Alexander.....	D. C....	927 F Street.
L.L.B., 1905, The George Washington University.		
Kirk, George Ellis.....	Ohio....	Milwaukee, Wis.
B.S., 1904, Columbian University.		
M.E., 1905, The George Washington University.		
Lahke, Arthur Henry.....	Ohio. . .	Gov't Printing Office
L.L.B., 1904, L.L.M., 1905, National University.		
Leach, Boynton McConnel.....	Va.....	1804 M Street.
B.S., 1901, L.L.B., 1904, The George Washington University.		
Margeson, Wylie Churchill.....	Mich...	1361 Harvard Street.
B. A., 1897, Harvard University.		
L.L.B., 1903, University of Minnesota.		
Morse, Howard Moore.....	Mass....	University Club.
B.S., 1902, Worcester Polytechnic Institute.		
L.L.B., 1905, The George Washington University.		
Moses, Edmund Quincy... ..	Mass. . .	The Sheridan.
B.S., 1902, Harvard University.		
L.L.B., 1905, The George Washington University.		
Povey, Richard G.....	Conn....	Patent Office.
B. S., 1901, Wesleyan University.		
L.L.B., 1905, The George Washington University.		
Schley, George Bigelow.....	Ohio ...	1336 W Street.
L.L.B., 1905, The George Washington University.		
B.S., 1902, M.A., 1903, Kenyon College.		
Shaffer, Charles Henry.....	Md. . .	1303 Clifton Street..
B.S., 1896, St. John's College.		
L.L.B., 1905, The George Washington University.		
Sperl, William John.....	Mass....	3573 10th Street.
L.L.B., 1905, The George Washington University.		
Thomas, Adolph Alexander.....	Ohio ...	Patent Office.
Thompson, Edward Cyrus.....	Iowa ...	1641 13th Street.
B.S., 1901, M.E., 1902, Columbian University.		
L.L.B., 1905, National University.		
Transom, Frederick	Penn ...	2121 1st Street.
B.S., 1895, University of Pennsylvania.		

Name.	Legal residence.	City address.
Underwood, Lineas Dott.....	D. C....	2818 13th Street.
B.S., 1899, Columbian University.		
Wesseler, William Julius.....	Mo.	103 I Street.
B.A., 1900, Washington University.		
LL.B., 1902, St. Louis Law School.		
LL.M., 1905, The George Washington University.		
Wright, Arthur	Md.	The Mendota.
B.A., 1900, Johns Hopkins University.		
Wyman, William I.	Mass ...	319, Patent Office.
M.P.L., 1905, The George Washington University.		

Review.

McClair, Charles....	Kans ...	Patent Office.
B.A., 1899, Kansas University.		
M.P.L., 1905, The George Washington University.		
Porter, Minott Eugene.....	Ohio ...	1517 35th Street.
B.S. in C.E., 1893, C.E., 1898, University of Michigan.		

Doctor of Jurisprudence.

Castellot, José ..	Mexico.	Mexican Embassy.
B.A., 1899, Institute Campechano.		
LL. B., 1904, National School of Jurisprudence, Mexico.		

Auditors.

Day, Stephen Albion.....	Mich...	1301 Clifton Street.
B.A., 1905, University of Virginia.		
Geissler, Mahlon Hobart.....	Conn...	929 L Street.
Hammond, Frank Earl.....	Iowa....	House of Reps.
I.L.D., 1900, Iowa University.		

Summary.

CANDIDATES FOR THE LL.B. DEGREE:

First year	173	
Second year	106	
Third year.....	115	
	<hr/>	394
Special.....	19	
Review.....	52	
	<hr/>	71
Candidates for the LL.M. degree.....	11	
Review.....	3	
	<hr/>	14
Candidates for the M.P.L. degree.....	34	
Review.....	2	
Candidate for the Jur.D. degree.....	1	
Auditors.....	3	
	<hr/>	40
Total..		<hr/>
		519

DEPARTMENT OF POLITICS AND DIPLOMACY.

Master of Diplomacy.

Name.	Legal residence.	City address.
Caldwell, Winfield Scott.....	N. Y....	136 W. 139th St., N. Y.
LL.M., 1905, The George Washington University.		
Dorsey, Roscoe J. C.....	Penn...	1217 I Street.
LL.B., 1902, LL.M., 1903, Georgetown University.		
Duras, Victor Hugo.	Neb....	2000 F Street.
LL.B., 1902, University of Nebraska.		
LL.M., 1903, Columbian University.		
Dye, John Walter.	Minn....	1514 K Street.
B.A., 1904, University of Minnesota.		
Green, Andrew Jordan	Va.....	1343 Clifton Street.
LL.B., 1887, National University.		
LL.B., 1888, LL.M., 1889, Georgetown University.		
LL.M., 1905, The George Washington University.		
Haas, Charles Edmund.....	Cal....	2018 G Street.
B.A., 1898, Leland Stanford University.		
Merritt, Leonard Atkins.....	Minn....	154 F Street, S. E.
LL.B., 1904, Columbia University.		
LL.M., 1905, The George Washington University.		
Miller, Clarence Alfonso.....	Mo....	Bureau of Corporations.
LL.B., 1899, Kansas City School of Law.		
LL.M., 1905, The George Washington University.		
Plumacher, Blas Guillermo,.....	Ven....	916 Massachusetts Ave.

Doctor of Civil Law.

Dorsey, Roscoe J. C.....	Penn....	1217 I Street.
LL.B., 1902, LL.M., 1903, Georgetown University.		
Gow, Bernard Arthur.....	Mo. ...	921 8th Street.
LL.B., 1896, Missouri State University.		
LL.M., 1904, Columbian University.		
Green, Andrew Jordan.	Va.....	1343 Clifton Street.
LL.B., 1887, National University.		
LL.B., 1888, LL.M., 1889, Georgetown University.		
LL.M., 1905, The George Washington University.		
Heimbeck, Adolph James	Iowa....	Auditor for Treas. Dept.
M. Dip., 1905, The George Washington University.		
Oberlin, Paca ...	Va.....	1238 5th Street.
LL.B., 1903, LL.M., 1904, Colorado University.		
M.Dip., 1905, The George Washington University.		
Saxton, Howard	Neb....	103 I Street.
LL.B., 1901, University of Nebraska.		
LL.M., 1904, Columbian University.		

Doctor of Philosophy.

Name.	Legal residence.	City address.
Miyakawa, Masuji	Ind.....	Geo. Washington Hotel.
L.L.B., 1902, University of Indiana.		
L.L.M., 1903, Columbian University.		
L.L.D., 1904, Southern University.		
D.C.L., 1905, Illinois College of Law.		
Slechta, Joseph John	S. Dak..	807 H Street.
B.A., 1904, M.A., 1905, University of South Dakota.		

Special.

Bacon, James Everett	Neb.....	807 18th Street.
Bailey, Emma Reba	Ga.....	Hotel Bancroft.
L.L.B., 1899, L.L.M., 1901, Washington College of Law.		
L.L.M., 1902, Columbian University.		
D.C.L., 1903, The George Washington University.		
Baker, Roswell Edward ...	D. C....	Wash. Loan & Trust Co.
Calvert, John Wentworth	D. C....	1750 Corcoran Street.
Drum-Hunt, Richard Coulter	Md.....	Wash. Loan & Trust Co.
Freebey, Harriet	D. C....	The Rochambeau.
L.L.B., 1904, University of Michigan.		
L.L.M., 1905, The George Washington University.		
Kasugai, Jotaro	N. Y...	1126 25th Street.
Shogyo College, Japan; University of Pennsylvania in 1905.		
March, Alden	Mass. .	1421 K Street.
Phelps, Horace J.	Mo. .	The Iowa.
Schulz, Johan Wilhelm Bruno	Va.....	228 Morgan Street.
B.A., 1894, Concordia College.		

Summary.

Candidates for the M.Dip. degree	9
Candidates for the D.C.L. degree	6
Candidates for the Ph.D. degree	2
Special	10
Total	27

NATIONAL COLLEGE OF PHARMACY.

Doctor of Pharmacy.

Seniors.

Name.	Legal residence.	City address.
Bennett, Fred C.	Eng....	553 Jef's'n St., Anacostia
Criswell, Miss Addie P. S.	D. C....	1737 13th Street.
Dieter, L. V.	Md.....	323 B Street, N. E.
Downey, Mrs. W. C.	Ohio ...	2473 18th Street.

Name.	Legal residence.	City address.
Geoghegan, Miss Isadora	D. C....	111 4th Street, N. E.
Goldsmith, M. L.....	D. C....	429 R Street.
Grady, J. Wilton.....	S. C....	484 Penn. Avenue.
Johnson, H. J.....	D. C....	1103 3d Street.
Judd, B. S	D. C....	7th and F Streets, S. W.
Keech, Jas. E.....	Md....	15th and U Streets.
Kem, Claude J.....	Colo....	1111 S Street.
Lantz, H. H.	Va.....	7th and H Streets, N. E.
Larrick, B. B	Va.....	15th and H Streets, N. E.
Linton, F. T	Md....	N. Cap. St. and Fla. Ave.
McAuley, H. S.	D. C....	1141 8th Street.
Mattingly, D. J.....	Md....	Tacoma Park.
Miskimon, R. R.....	Del....	254 11th Street, S. E.
Nordeman, Miss Hazel	Ill....	411 1st Street, N. E.
Nordeman, Miss Agnes M.....	Ill....	411 1st Street, N. E.
Nelson, Cyrus W.....	Okla....	1st and C Streets.
O'Donnell, Miss N. G	D. C. . .	32d and O Streets.
Richardson, Earle K.....	Ohio ...	1518 12th Street.
Sudler, Mrs. O. R.....	Ill	5th and H Streets.

Juniors.

Colby, Herman H.....	N. Y. . .	U. S. S. <i>Puritan</i> .
Day, A. N	N. J....	E. Capitol and 11th Sts.
Everett, Jas. T.....	D. C. . .	127 12th Street, N. E.
Gulick, R... ..	D. C....	14th St. and N. Y. Ave.
Jacobs, John R.....	N. Y. . .	419 H Street.
Keister, John T.....	Va	Agricultural Dept.
Kisseleff, John.....	Russia..	N. Capitol and I. Sts.
Laubinger, Louis.....	Ger....	228½ Q Street.
Leatherland, Lawrence C.....	Va.	212 N. Alfred Street, Alexandria, Va.
Madigan, Robert E.	D. C....	432 Monroe Street, Anacostia.
Myers, Robert I.....	D. C....	120 Florida Avenue.
Nelson, Miss S.....	Okla....	1st and C Streets.
O'Neill, A. J	D. C....	710 10th Street, N. E.
Pitzer, F. H.....	D. C....	5th and E. Capitol Sts.
Preuss, Benno R	Texas ..	227 P Street.
Richardson, Miss M. H	Ohio....	3d and Penn. Avenue.
Rickards, L. B. W.....	N. J....	631 Mass Ave., N. E.
Sacks, L.....	Ger....	3223 M Street.
Schulze, Gustave H., Jr.	D. C....	1751 L Street.
Spire, W. Burton	N. Y. . .	1120 C Street, S. W.
Thompson, Milton C.....	D. C....	1006 D Street, S. E.
Wiley, R.	Okla....	College Station, Prince George Co., Md.

Freshmen.

Name.	Legal residence.	City address.
Boyer, W. Roby....	Md....	14th and P Streets.
Buckman, M. M.....	Minn....	National Hotel.
Deming, C. G.....	D. C....	907 K Street.
De Vaughan, Lewis H.....	Va.....	412 King Street, Alexandria, Va.
Eppard, Geo. I....	Va.....	808 I Street.
Floyd, H. B.....	Ark ..	1112 10th Street.
Harris, Eugene..	D. C....	608 Albany Street, N. E.
Hughes, H. D.....	D. C....	1325 29th Street.
Johnson, C. J.....	D. C....	922 F Street.
Lusby, Roger W	Md.....	714 A Street, N. E.
Nolan, J. I.....	Ill.....	1164 5th Street, N. E.
Owens, Joseph J.....	Md.....	1225 B Street, S. E.
Pozen, M.....	D. C....	626 H Street.
Reh, C....	D. C....	5th and G Streets.
Salb, G. R.....	D. C....	617 9th Street, N. E.
Schroeder, Robert M.....	D. C....	524 9th Street, S. E.
Senay, H. J.....	D. C....	916 9th Street.
Silcott, E. W.	D. C....	Cleveland Park.
Simmons, J. W.....	D. C....	36th and O Streets.
Souder, Willard L.....	Md.....	11th and S Streets.
Spencer, R. Bruce.....	N. C....	Falls Church, Va.
Sprague, V. H.....	Ill.....	9th and Penn. Avenue.
Steele, Ernest H.....	Va.....	54 I Street, N. E.
Taltavull, Harold J	D. C....	601 6th Street, S. W.
Thibadeau, Richard B.....	Ga.....	316 4½ Street, S. W.
Thorn, W. D.....	D. C....	412 35th Street.
Timberlake, T. O.....	Va.....	524 9th Street, S. W.

Summary.

CANDIDATES FOR THE PHAR. D. :

Seniors.....	23
Juniors.....	22
Freshmen	27
Total.....	72

PART V.

DEGREES CONFERRED, MISCELLANEA.

Degrees Conferred at Commencement, 1905.

HONORARY.

Doctor of Divinity.

Rev. Charles Hastings Dodd.

Master of Laws.

Theodore P. Ion.

IN COURSE.

Doctor of Philosophy.

Ray Smith Bassler, Ohio.

A.B., 1902, University of Cincinnati.

M.S., 1903, Columbian University.

Hiram Colver McNeil, Ohio.

B.S., 1896; M.S., 1899, Denison University.

Henry Albert Pressey, Maine.

B.S., 1893, Columbian University.

B.S., 1896, Massachusetts Institute of Technology.

Master of Arts.

Alice Marie Clark, District of Columbia.

A.B., 1896, Woman's College of Baltimore.

Ella Arvilla Merritt, Minnesota.

A.B., 1903, Columbian University.

Paul Noble Peck, District of Columbia.

A.B., 1904, Columbian University.

Master of Science.

Cyrus Day Backus, New York.

Ph.B., 1896; LL.B., 1896, Cornell University.

B.S., 1904, Columbian University.

William Cornelius Gerdson, Minnesota.

B.S., 1898, University of Minnesota.

Millard Caleb Marsh, New York.

B.S., 1897, Cornell University.

Charles Napoleon Moore, Ohio.

A.B., 1903, University of Cincinnati.

Raymond Outwater, District of Columbia.
B.S., 1904, Columbian University.

Civil Engineer.

William Chester Thom, District of Columbia.
B.S. in C.E., 1904, Columbian University.

Mechanical Engineer.

James Alfred Brearley, Pennsylvania.
B.S., 1903, Columbian University.

George Ellis Kirk, Ohio.
B.S., 1904, Columbian University.

Charles Wilson Rippey, New York.
B.S., 1904, Columbian University.

Bachelor of Arts.

Augusta Moulton De Forest, Kansas.
(With distinction.)

George Emery Green, Massachusetts.

Reymond Fauche Kirkman, Illinois.

Maud Esther McPherson, District of Columbia.
(With distinction.)

William H. Singleton, District of Columbia.
(As of the class of 1875.)

Otto Louis Veerhoff, District of Columbia.

Amy Louise Warn, Kansas.

Bachelor of Science.

Susan Louise Balentine, Ohio.

Walter J. Bennett, Ohio.

Harry Coope, Ohio.

L.L.B., 1899; LL.M., 1900, National University.

M. P. L., 1901, Columbian University.

Horace Marion Fulton, District of Columbia.

George Marshall Saegmuller, Virginia.

Bachelor of Science in Chemistry.

Edward Matthews Dawson, Jr., District of Columbia.

Bachelor of Science in Civil Engineering.

Edwin Vivian Dunstan, Virginia.
(With distinction.)

George Foster Harley, Georgia.

Bachelor of Science in Electrical Engineering.

Charles Nichols Gregory, New York.
 James Muscoe Matthews, District of Columbia.
 Lloyd Lyman Smith, South Dakota.
 Charles Roundtree Sugg, North Carolina.
 (With distinction.)
 Mark Rittenhouse Woodward, District of Columbia.

Bachelor of Science in Mechanical Engineering.

Frederick Wilhelm Albert, Pennsylvania.

Doctor of Medicine.

Frank A. Allen, Minnesota.
 Samuel Duffie Austin, Mississippi.
 Herschel Edward Baldwin, Illinois.
 Rhodric Winfield Browne, Massachusetts.
 Zadoc Maurice Brady, Maryland.
 Henry Bohlen Bryan, Virginia.
 Edward Warren Burch, Maryland.
 Daniel P. Bush, Nebraska.
 George Hildreth Camp, Pennsylvania.
 William Whitney Christmas, North Carolina.
 Wayne F. Cowan, Wisconsin.
 Raymond Adams Fisher, District of Columbia.
 Thomas Madden Foley, District of Columbia.
 Edmund T. M. Franklin, Virginia.
 William Joseph French, Minnesota.
 Earl Bruce Graham, New York.
 Edward James Gunning, Pennsylvania.
 Tharos Harlan, Maryland.
 Frederick Mason Hart, New York.
 Frank Crawford Hayes, Illinois.
 Samuel Carle Henning, North Dakota.
 Ross Joseph Hillegass, Pennsylvania.
 Josiah Hutton Holland, District of Columbia.
 Phar.D., 1901, National College of Pharmacy.
 Armen G. Hovsepian, District of Columbia.
 William Burrows Hudson, Connecticut.
 Arthur Leroy Hunt, Maine.
 A.B., 1898, Bowdoin College.
 Frank Hubert Jett, Indiana.
 Flavius Thomas Johnson, Michigan.
 Glenn Irvine Jones, District of Columbia.

Adam Kemble, Pennsylvania.
Emil Krulish, Iowa.
Frederick W. Kuehn, Indiana.
Archibald Cary Lewis, Virginia.
William H. Littlepage, Arkansas.
James Mortimer Lynch, Texas.
Frank Leslie Martine, New Jersey.
Arthur Nourse Meloy, Maryland.
Joseph Alexander Murphy, District of Columbia.
Elmer Slayton Newton, Massachusetts.

B.A., 1895, Amherst College.

Alfred C. Norcross, Pennsylvania.
Edward Lee Osborne, Georgia.
Charles A. Pfender, Texas.
James Thomas Prevatt, Georgia.
Thomas W. Raison, Kentucky.
Ausey Hamilton Robnett, Texas.
Willis Parrish Rogers, Nebraska.
Edward Whitmore Sawyer, Massachusetts.
George James Sells, Tennessee.
William Edward Shea, Idaho.
Lucien Conway Smith, Virginia.
Edgar Speiden, Jr., District of Columbia.
Gordon Stanton, South Carolina.
George W. Stiles, Jr., Oklahoma.
B.S., 1900, Oklahoma Agricultural and Mechanical College.
John Allan Talbott, Jr., Maryland.
Walter Gordon Trow, District of Columbia.
Charles Lewis Waters, Maryland.
Marcus Henry Watters, Vermont.
Richard Thomas West, Maryland.
Ph.B., 1897, Dickinson College.

John James Wharton, Maryland.
Lawrence Luther Whitney, New York.
Walter W. Wilkinson, Virginia.

Doctor of Dental Surgery.

Charles De Warren Ake, Pennsylvania.
Lewis Miller Bartlett, Massachusetts.
Adelbert Maurice Bassford, Illinois.
Mark Carleton Bullis, Michigan.
William Earle Butler, West Virginia.
George Samuel Catts, District of Columbia.
Thomas Maslin Chunn, North Carolina.

Seth Eugene Cole, Vermont.
 Claude Bonifant Cooksey, District of Columbia.
 Angel Custodio Cortes, Porto Rico.
 Ralph Webster De Mass, Michigan.
 George Andrew Fletcher, New York.
 William Edwin Francis, District of Columbia.
 Robert Wellington Lowe, Massachusetts.
 Fred De Witt Maphis, Virginia.
 Leighton Van Buren Marschalk, Florida.
 Fred Arthur Mitchell, Texas.
 Charles Brown Noble, District of Columbia.
 Joseph Wood Pollock, Indiana.
 Walter Edwin Rogers, Texas.
 John C. R. Schumacher, Missouri.
 Thomas R. Wilkerson, Virginia.
 Joseph Henry Wood, District of Columbia.

Doctor of Civil Law.

Frederick Carlos Bryan, Ohio.
 A.B., 1878, Western Reserve University.
 LL.B., 1881, Cincinnati Law School.
 LL.M., 1903; M.Dip., 1904, Columbian University.
 James Hervey Dorman, Kentucky.
 LL.B., 1895, Center College.
 LL.M., 1903; M.Dip., 1904, Columbian University.
 Haskell Burlason Talley, Tennessee.
 LL.B., 1899, Vanderbilt University.
 LL.M., 1902, Columbian University.

Master of Diplomacy.

Clarence Crittenden Calhoun, Kentucky.
 A. & M. College of Kentucky.
 Adolph James Heimbeck, Iowa.
 LL.B., 1901, State University of Iowa.
 LL.M., 1902, Illinois College of Law.
 Paca Oberlin, Virginia.
 LL.B., 1903; LL.M., 1904, Columbian University.
 Howard Saxton, Nebraska.
 LL.B., 1901, University of Nebraska.
 LL.M., 1904, Columbian University.

Master of Laws.

Fred Hodges Benson, New York.
 LL.B., 1904, Columbian University.
 Samuel Martin Brosius, District of Columbia.
 LL.B., 1904, Columbian University.

Winfield Scott Caldwell, New York.

Walter C. English, District of Columbia.

LL.B., 1903, Columbian University.

Richard W. Flournoy, Maryland.

LL.B., 1904, Columbian University.

Harriet Freebey, Michigan.

LL.B., 1904, University of Michigan.

Paul Delevan Frost, Iowa.

LL.B., 1904, Columbian University.

Andrew Jordan Green, Virginia.

LL.B., 1887, National University.

LL.B., 1888; LL.M., 1889, Georgetown University.

Henry Gulliksen, North Dakota.

LL.B., 1904, Columbian University.

Nathaniel Harris, Texas.

A.B., 1900; A.M., 1901, Baylor University.

M.A., 1902, Yale University.

LL.B., 1904, Columbian University.

W. Bennett Henderson, Kentucky.

A.B., 1891, Princeton Collegiate Institute.

LL.B., 1892, Cumberland University, Lebanon, Tennessee.

August E. Kuehne, Minnesota.

LL.B., University of Minnesota.

Charles Bryce Logan, Missouri.

LL.B., 1903, Kansas City School of Law.

Leonard Atkins Merritt, Minnesota.

LL.B., 1904, Columbian University.

Clarence A. Miller, Missouri.

B.L., 1899, Kansas City School of Law.

William Perry Montgomery, Missouri.

LL.B., 1902; LL.M., 1903, National University Law School.

J. Clarke Swayze, Kansas.

A.B., 1899; Ph.C., 1899; A.M., 1900; LL.B., 1902, Kansas University.

Fumihiko Taniguchi, Japan.

LL.B., 1902, Chicago School of Law.

William Julius Wesseler, Missouri.

A.B., 1900, Washington University.

LL.B., 1902, St. Louis Law School.

Master of Patent Law.

Robert W. Burroughs, New York.

A.B., 1900, Colgate University.

LL.B., 1903, Brooklyn Law School.

Leonard Day, Massachusetts.

S.B., 1902, Worcester Polytechnic Institute.

LL.B., 1905, The George Washington University.

- Wilbur Fisk Drown, Louisiana.
B.S., 1886, Ohio Northern University.
LL.B., 1902; LL.M., 1903, National University.
- Walter Marshall Fuller, Massachusetts.
B.S., 1896, M.S., 1899, Worcester Polytechnic Institute.
LL.B., 1904, Georgetown University.
- Owen Henry Fowler, District of Columbia.
LL.B., 1898, Columbian University.
- Jesse E. Holliger, Indiana.
B.S., 1899, Rose Polytechnic Institute.
LL.B., 1904, National University.
- Benjamin Irving, Oregon.
LL.B., 1904, Columbian University.
- Charles McClair, Kansas.
A.B., 1899, University of Kansas.
- Langdon Moore, New York.
LL.B., 1905, The George Washington University.
- George Bassett Pitts, District of Columbia.
LL.B., 1904, Georgetown University.
- Alfred Waters Proctor, Massachusetts.
LL.B., 1901, Columbian University.
- Walter L. Redrow, District of Columbia.
B.S., 1900, Ohio State University.
LL.B., 1904, Georgetown University.
- Joseph Courtney Stack, District of Columbia.
LL.B., 1904, Georgetown University.
- Waitstill H. Swenarton, New Jersey.
Ph.B., 1900, Yale University.
LL.B., 1904, National University.
- Edwin Everett Vrooman, Maryland.
LL.B., 1903; LL.M., 1904, National University.
- William I. Wyman, Massachusetts.
B.S., 1900, Massachusetts Institute of Technology.
LL.B., 1904, National University.

Bachelor of Laws.

- George Price Alderson, West Virginia.
- Julius Lyman Baldwin, New York.
A.B., 1901, Princeton.
- Jesse William Barrett, Missouri.
A.B., 1901; LL.B., 1902, Christian University.
- James William Beller, West Virginia.
- Leonie Bone, Illinois.
- Charles Hamilton Bradley, District of Columbia.
- Thomas Chiles Bradley, South Carolina.
A.B., 1902, Princeton University.

- Philip Buettner, Wisconsin.
John M. Burkett, Indiana.
Enoch Aquila Chase, Kansas.
Paul Maltby Clark, Colorado.
Charles Orlando Cole, Oklahoma.
Judson Thomas Cull, District of Columbia.
Silas Henry Cutting, Michigan.
Arthur L. Dahl, Kansas.
Leonard Day, Massachusetts.
 B.S., 1902, Worcester Polytechnic Institute.
Samuel Edelstein, Wisconsin.
William Bascom Ellison, Tennessee.
 A.B., 1900, Grant University.
Otho Leonard Ferris, Iowa.
Carlton Fox, New Jersey.
Eugene Leage Gaddess, Virginia.
James R. Gaskill, Jr., North Carolina.
Otis Haskell Gates, Florida.
Mark Goode, Illinois.
Richard Magness Graham, Oregon.
J. Morris Graves, Missouri.
John William Gregg, Virginia.
John A. Griesbauer, Jr., District of Columbia.
Mortimer Beecher Hall, Maryland.
 B.A., 1896, Columbian University.
Harvey Earleton Hanes, Virginia.
Alvin Dolph Hathaway, Kentucky.
Carl John Hellerstedt, Tennessee.
Herbert C. Hengstler, Ohio.
Frederick R. Hertford, District of Columbia.
Birdette P. Hickox, Michigan.
Ralph Warren Hills, Ohio.
 B.S., 1897, Columbian University.
Philip Rea Hindman, Pennsylvania.
Michael Joseph Holland, Massachusetts.
Thomas Salisbury Huff, New York.
Walter Clarence Hurd, Utah.
George A. Hutchinson, Maryland.
Robert Whitney Imbrie, District of Columbia.
Charles Grant James, Ohio.
Walter Slicer Johnson, Washington.
Albert Hearl Keller, Iowa.
Gilbert Walker Kelly, District of Columbia.
Guy Edward Kelly, South Dakota.
John W. Keener, Tennessee.

John Wellington Knowlton, Massachusetts.

A.B., 1897, Tufts College.

John Augustus Lee, Washington.

A.B., 1891, Pacific University.

Irwin Heffenstein Linton, District of Columbia.

Clarence Leroy Marine, Nebraska.

A. George Maul, Ohio.

Alexander H. McCormick, Jr., Virginia.

John Patrick McMahon, District of Columbia.

Langdon Moore, New York.

Howard Moore Morse, Massachusetts.

S.B., 1902, Worcester Polytechnic Institute.

Edmund Quincy Moses, Massachusetts.

B.S., 1902, Harvard University.

Thomas Cebern Musgrave, Texas.

Clarence Raymond Naff, Kansas.

Horace Strait Naylor, District of Columbia.

Edwin Jonathan Newmyer, Missouri.

Luther Bertram Nye, District of Columbia.

Irvin St. Clare Pepper, Iowa.

Joseph H. Peterson, Idaho.

Robert Baxter Pharr, North Carolina.

A.B., 1901, Erskine College.

Richard Granville Povey, Connecticut.

B.S., 1901, Wesleyan University.

William Keyes Quinter, District of Columbia.

James Bickle Rickard, Hawaii.

Fred Burnett Rhodes, Maryland.

Joseph Sagmeister, Ohio.

George Bigelow Schley, Ohio.

B.Sc., 1902; A.M., 1903, Kenyon College.

Edwin Francis Samuels, Massachusetts.

B.S., 1899, Massachusetts Institute of Technology.

William Daniel Searle, New York.

Charles Henry Shaffer, Maryland.

S.B., 1896, St. John's College.

Arthur Veeder Snell, New York.

B.L., 1899, Hobart College.

Ph.B., 1900, University of Chicago.

William John Sperl, Massachusetts.

B.S., 1894, W. P. I.

Edgar Spinks, Mississippi.

Delmar Clay Stutler, West Virginia.

B.S., 1894, W. P. I.

Julius Arthur Tellier, Vermont.

A. B., 1902, University of Vermont.

William Pressley Webb, Virginia.
George Langdon Whitford, New Hampshire.
Hugh Williams, Jr., New York.
Orin Hazen Woods, Wyoming.
Herbert Alpheus Wrenn, Virginia.
Eugene Young, District of Columbia.

Degrees Conferred at Winter Convocation, 1906.

IN COURSE.

Master of Science.

Evelyn Groesbeeck Mitchell, New York.
B.A., 1902, Cornell University.
Thesis: Keys to the Adults, Pupæ, Larvæ, Eggs of the North American Mosquitoes.

Bachelor of Science in Architecture.

William Henry Irwin Fleming, District of Columbia.
Delos Hamilton Smith, District of Columbia.

Bachelor of Laws.

John Sherman Biggs, Kansas.
LL.B., 1901, Kansas City School of Law.
Frederick Transom, Pennsylvania.
B.S. in M.E., 1895, University of Pennsylvania.
William Franklin Waite, Alabama.
David Whitcomb, New York.
B.A., 1900, M.A., 1905, Amherst College.

Master of Patent Law.

George Ellis Kirk, Ohio.
B.S., 1904; M.E., 1905, The George Washington University.

Doctor of Medicine.

Philip Eugene Garrison, New Jersey.
A.B., 1900, Wesleyan University.
James Edward Haggerty, New York.
Benjamin Hallowell Swain, North Carolina.

Master of Diplomacy.

Winfield Scott Caldwell, New York.
LL.M., 1905, The George Washington University.

Doctors of Philosophy.

During the years 1894 to 1905, inclusive, the University has conferred the degree of Doctor of Philosophy, after examination and the presentation and public defense of a thesis, upon the following persons:

1894.

- Edward Farquhar, (Greek)
 Thesis: Elements of Unity in the Homeric Poems. (Conservative Review, vol. iii, June-September, 1900.)
- Walter Scott Harshman, (Theoretical Astronomy)
 M.S., 1892, Columbian University.
 Thesis: Investigation of the Motion of the Pericentre of Deimos. (Astronomical Journal, Boston, vol. xiv, pp. 145-148, 1894.)
- Professor Frank Hall Knowlton, (Botany)
 B.S., 1884; M.S., 1887, Middlebury.
 Thesis: The Flora of the Laramie Group and Allied Formations. (Not published.)
- Claude Augustus Oscar Rosell, (Chemistry)
 M.A., 1881, University of Pennsylvania; LL.B., 1886, Georgetown University.
 Thesis: Investigation of the Properties of Ferric Acid. (J. Am. Chem. Soc., vol. xvii, pp. 760-769, 1895.)

1895.

- George Wesley Hamner, (History)
 B.A., 1882; M.A., Hiawassee College; LL.B., 1885, University of Alabama; LL.M., 1886, Georgetown University.
 Thesis: Researches upon the Government of the Creek Indians. (Not published.)

1896.

- Edward Clarke Hudson, (Greek)
 B.A., 1884; M.A., 1894, Hiawassee College; M.A., 1894, Columbian University.
 Thesis: Investigation into the Use of the Genitive Case in Greek. (Not published.)
- Rev. James Stephen Lemon, (Psycho-physics)
 B.A., 1864; M.A., 1867, Wesleyan University, Middletown, Conn.
 Thesis: The Skin Considered as an Organ of Sensation. (Published separately, 1898, 70 pp.)

1897.

- Professor Charles Arthur Hollick, (Palæobotany)
 Ph.D., 1879, Columbia College.
 Thesis: Palæobotany of the Yellow Gravel at Bridgeton, N. J. (Not published.)

John Scott Johnson, (Philosophy)
 B.S., 1893; M.A., 1894, Columbian University.
 Thesis: The Influence of French Thought on the Formation of the Constitution of the United States. (Not published.)

Timothy William Stanton, (Palæontology)
 B.S., 1883; M.S., 1895, University of Colorado.
 Thesis: A Comparative Study of the Lower Cretaceous Formations and Faunas of the United States. (Jour. of Geology, pp. 1-49, September-October, 1897.)

1898.

Cabell Whitehead, (Chemistry)
 B.M., 1885, Lehigh University; M.S., 1895, Columbian University.
 Thesis: A Study of the Tellurides; Their Formation and Chemical Properties. (Not published.)

1900.

Eugene Byrnes, (Physical Chemistry)
 B.A., 1884, Michigan University; LL.B., 1887; LL.M., 1888, Columbian University.
 Thesis: Experiments on the Direct Conversion of the Energy of Carbon into Electrical Energy. (Not published.)

Rev. Benjamin Alfred Dumm, (Philosophy)
 B.A., 1886; M.A., 1889, Western Maryland College.
 Thesis: The Concept of Self in the Analysis of Experience. (Not published.)

Professor Charles Russell Ely, (Chemistry)
 A.B., 1891; A.M., 1897, Yale College.
 Thesis: Investigation of the Phenomenon of Deliquescence and the Capacity of Salts to Attract Water Vapor. (Not published.)

Ernestine Fireman, (Chemistry)
 M.S., 1898, Columbian University.
 Thesis: The Action of Phosphonium Iodide on Tetra and Penta Chlorides. (Am. Chem. Jour., 30, 116-133, 1903.)

Charles Moore, (American History)
 A.B., 1878, Harvard; M.A., 1898, Columbian University.
 Thesis: The Northwest under Three Flags. (Published separately by Harper & Bros., New York, 1900, 402 pp.)

1901.

William Hamilton, (American History)
 B.A., 1891, Moravian College, Pennsylvania; M.A., 1894, Columbian University.
 Thesis: The Expansion of Russia to the Eastward. (Not published.)

Chohei Shirasu, (Economics)
 Graduate, 1893, Doshisha University, Japan; A.M., 1899, Yale University.
 Thesis: The Development of Commerce in Japan and its Effect on Civilization. (Summary of Commerce and Finance for December, 1901, Bureau of Statistics, U. S. Treasury Department, pages 2227-2315.)

1902.

- Rev. Frank Leighton Day, (Anthropology)
 B.A., 1891; M.A., 1896, Roanoke College; B.D., 1895, Vanderbilt University.)
 Thesis: Did the Semites Pass through a Totem Stage? (Not published.)
- Nevil Monroe Hopkins, (Chemistry)
 B.S., 1899; M.S., 1900, Columbian University.
 Thesis: Some Experiments on Electrolytic Conductivity with Reference to the Ionic Theory. G. W. U. Bull., 3 [3], 91-94, 1904. (Published separately as "Experimental Electro-Chemistry," by D. Van Nostrand Company, New York, 1905, 284 pp., 131 ill.)

1903.

- Edwin Allston Hill, (Chemistry)
 A.B., 1875; A.M., 1902, Yale University; M.S., 1901, Columbian University.
 Thesis: The Constitution of Certain Halogen Oxy-acids as inferred from Thermo-Chemical Data. G. W. U. Bull., 3 [4], 94-103, 1904.
- William Mather Lamson, (Architecture)
 B.S., 1897; C.E., 1899, Columbian University.
 Thesis: Iron and Steel Domes. (Not published.)
- Thomas Malcolm Price, (Biochemistry)
 B.S., Maryland Agricultural College; M.S., 1900, Columbian University.
 Thesis: The Influence of Varying Strength Solutions of Formaldehyde on some of the Enzymes of Animal Origin. G. W. U. Bull., 3 [4], 104-108, 1904.
- Harriet Richardson, (Zoology)
 A.B., 1896; A.M., 1901, Vassar College.
 Thesis: Contributions to the Natural History of the Isopoda. (Proc. U. S. Nat. Museum, 27, 1-89, 1904, and Bull. U. S. Fish Com., pp. 47-54, Sept. 17, 1903.)

1904.

- William Macon Coleman, (History)
 A.B., 1858; A.M., 1892, University of North Carolina.
 Thesis: A Refutation of Mommsen's Theory on Cæsar's Agrarian Policy. (Not published.)
- Frank Van Vleck, (Mechanical Engineering)
 M.E., 1884, Stevens' Institute of Technology.
 Thesis: Improvements in Ship Construction. (Not published.)
- Andrew Wilson, (American History)
 B.S., 1885; B.O., 1886; B.A., 1886; M.A., 1890, Kansas Normal College; LL.B., 1890; LL.M., 1891, Georgetown University; M.L., 1892; D.C.L., 1893, Yale University.
 Thesis: Influence of John Marshall on the Political History of the United States. (Not published.)

1905.

- Ray Smith Bassler, (Paleontology)
 B.A., 1902, University of Cincinnati; M.S., 1903, The Columbian University.
 Thesis: A Study of the James Types of Ordovician and Silurian Bryozoa. (Not published.)

- Hiram Colver McNeil, (Chemistry)
B.S., 1896; M.S., 1899, Denison University.
Thesis: On the Constitution of Certain Natural Silicates. G. W. U. Bull.,
4, [3], 76-79, 1905.
- Henry Albert Pressey, (Hydraulic Engineering)
B.S., 1893, The Columbian University; B.S., 1896, Massachusetts Institute
of Technology.
Thesis: Flow of Water in Channels. (Not published.)
- Warren Waverley Phelan, (Comparative Jurisprudence)
B.A., 1894; M.A., 1896, Columbia University.
Thesis: An Historical Sketch of the Criminal Law of Louisiana from the
Founding of the Colony to the Establishment of the State. (Not pub-
lished.)

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Foreign countries.	Grad.	Coll.	Eng.	Arch.	Teach.	Med.	Dent.	L. & J.	P. & D.	Phar.	Total.
Canada.....						I					I
Chili.....								I			I
China.....		2									2
Costa Rica.....						I	2				3
England.....									I		I
Finland.....						I					I
Germany.....	2	2								2	6
Hawaii.....								3			3
Hungary.....				I							I
Korea.....		I									I
Mexico.....								I			I
Philippine Islands.....		I						5			6
Porto Rico.....						I	I				2
Russia.....										I	I
Turkey.....							I				I
Uruguay.....						I					I
Venezuela.....									I		I
Total foreign countries	2	6	....	I	...	5	4	10	I	4	33
Total United States....	80	297	135	36	93	275	59	509	26	68	1,578
Grand total.....	82	303	135	37	93	280	63	519	27	72	1,611

RECAPITULATION.

Members of the Faculties and Teaching Staff :

Professors.....	89
Assistant Professors	22
Instructors, Demonstrators, and Assistants	71
Lecturers	13
Librarians and Assistants	5
Total.....	200

Students :

Graduate	109
Undergraduate.....	568
Professional	934
Total.....	1,611
Duplicates.....	31
Total.....	1,580

RECAPITULATION (Continued).

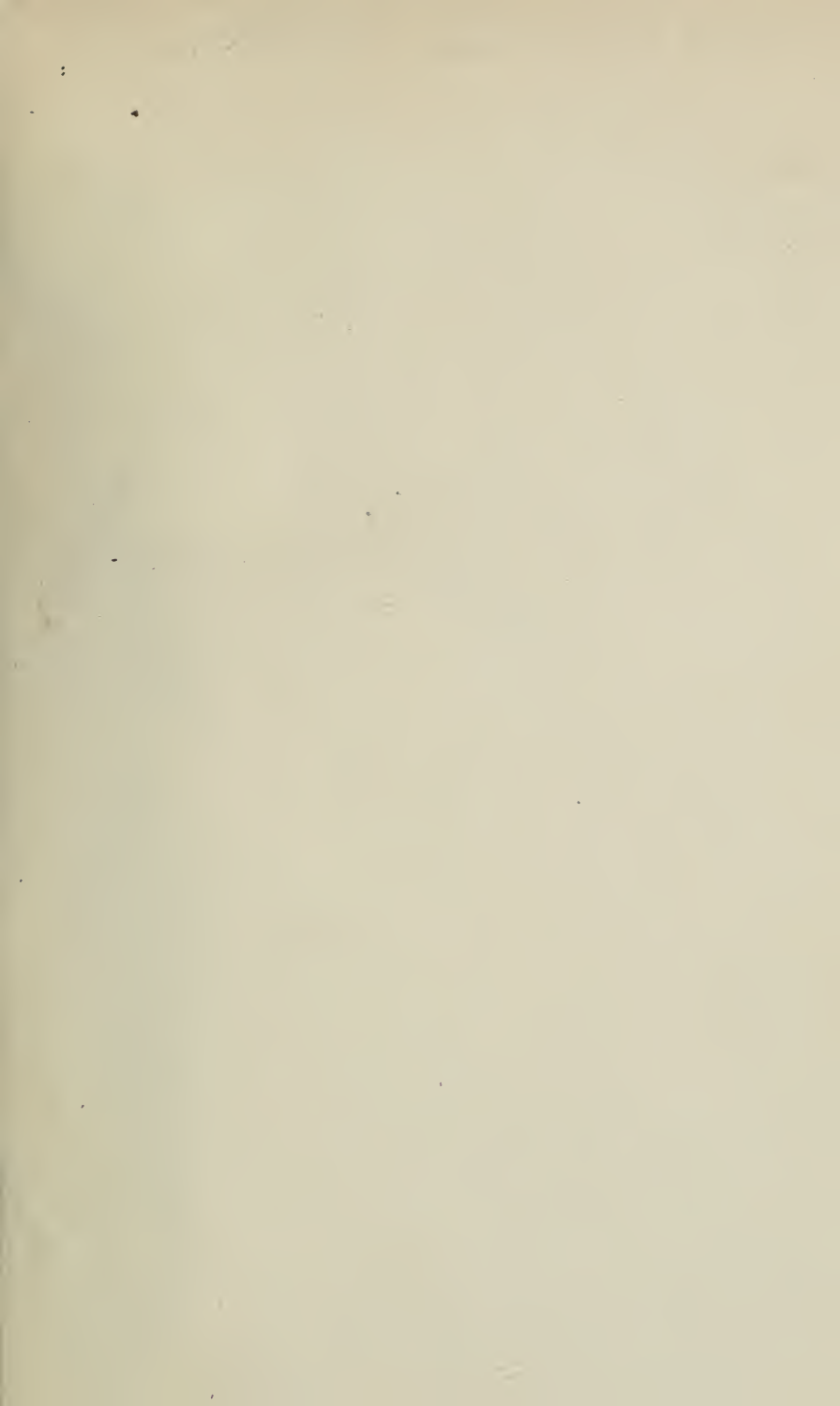
	FACULTY.	STUDENTS.
Department of Arts and Sciences :		
Faculty of Graduate Studies.....	37	82
Columbian College.....	42	303
Washington College of Engineering..	29	135
Division of Architecture.....	25	37
In attendance upon the Courses for Teachers	8	93
	— 141	— 650
Department of Medicine :		
Faculty of Medicine.....	79	280
Faculty of Dentistry	41	63
	— 120	— 343
Department of Law and Jurisprudence.....	22	519
Department of Politics and Diplomacy (Post- graduate)....	22	27
National College of Pharmacy	9	72
	— 314	— 1,611
Duplicates.....	114	31
	— 200	— 1,580
Totals.....	200	1,580

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